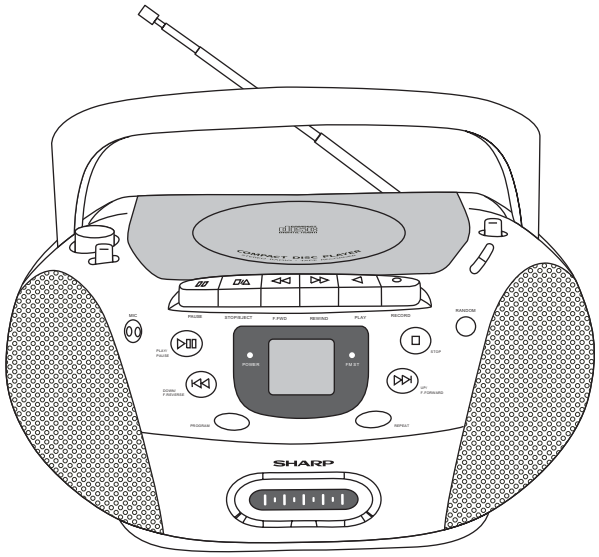
SHARP SERVICE MANUAL



PORTABLE CD STEREO SYSTEM

MODEL QT-CD700W

• In the interests of user-safety the set should be restored to its original condition and only parts identical to those specified be used.

COMPACT disc DIGITAL AUDIO

CONTENTS

	Page
AC POWER SUPPLY CORD AND AC PLUG ADAPTOR	2
SPECIFICATIONS	3
NAMES OF PARTS	4
FITTING OF DIAL POINTER	5
OPERATION MANUAL	6
DISASSEMBLY	7
ADJUSTMENT	10
NOTES ON SCHEMATIC DIAGRAM	15
WAVEFORMS OF CD CIRCUITS	22
TROUBLESHOOTING (CD SECTION)	24
FUNCTION TABLE OF IC	29
PARTS GUIDE/EXPLODED VIEW	

SHARP CORPORATION

This document has been published to be used for after sales service only.
The contents are subject to change without notice.

SAFETY PRECAUTION FOR SERVICE MANUAL

- This product is classified as a CLASS 1 LASER PRODUCT.

- **WARNINGS:**

The AEL (Accessible Emission Level) of Laser Power Output for this model is specified to be lower than Class I Requirements. However, the following precautions must be observed during servicing to protect your eyes against exposure to the Laser beam.

(1) When the cabinet has been removed, the power is turned on without a compact disc, and the Pickup is on a position outer than the lead-in position, the Laser will light for several seconds to detect a disc. So not look into the Pickup Lens.

(2) The Laser Power Output of the Pickup inside the unit and replacement service parts have already been adjusted prior to shipping.

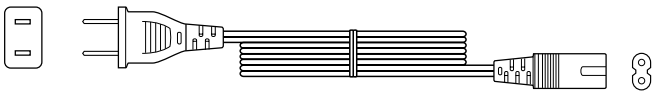
(3) No adjustment to the Laser Power should be attempted when replacing or servicing the Pickup.

(4) Under no circumstances look directly into the Pickup Lens at any time.

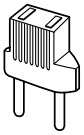
(5) CAUTION - Use of controls or adjustment, or performance of procedures other than those specified herein may result in hazardous radiation exposure.

AC POWER SUPPLY CORD AND AC PLUG ADAPTOR

92L24801600292

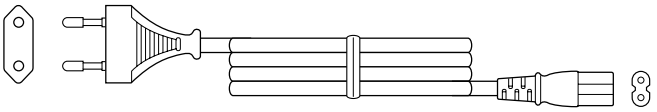


92L26803000010



92L2680212512A

92L24801800222



FOR A COMPLETE DESCRIPTION OF THE OPERATION OF THIS UNIT, PLEASE REFER TO THE OPERATION MANUAL.

SPECIFICATIONS

QT-CD700W

■ General

Power source	AC 110-127/220-240 V, 50/60 Hz DC 12 V ["C" size (UM/SUM-2, R14) battery x 8]
Power consumption	12 W
Output power	PMPO: 32 W (AC operation, 10% T.H.D) RMS: 4 W (2 W + 2 W) (DC operation, 10% T.H.D)
Speakers	77 mm (8 Ω) full range x 2 piezo x 2
Dimensions	Width: 295 mm (11-5/8") Height: 153 mm (6") Depth: 213 mm (8 - 3/8")
Weight	2.1 kg (4.6 lbs) without batteries

■ Compact disc player

Type	Compact disc
Signal readout	Non-contact, 3-beam semiconductor laser pickup
Audio channels	2
Filter	8 time over sampling digital filter
D/A converter	1-bit D/A converter
Wow and flutter	Unmeasurable (less than 0.001% W. peak)

■ Radio

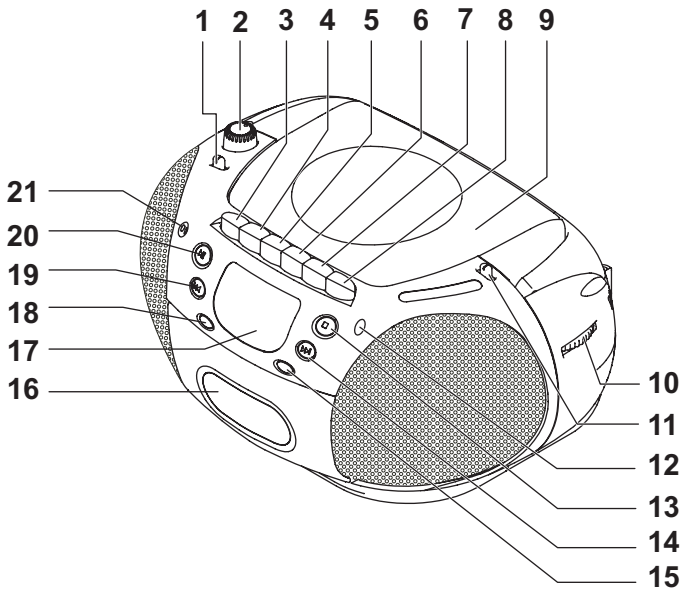
Frequency range	FM: 88 - 108 MHz AM: 526.5 - 1,606.5 kHz

■ Tape recorder

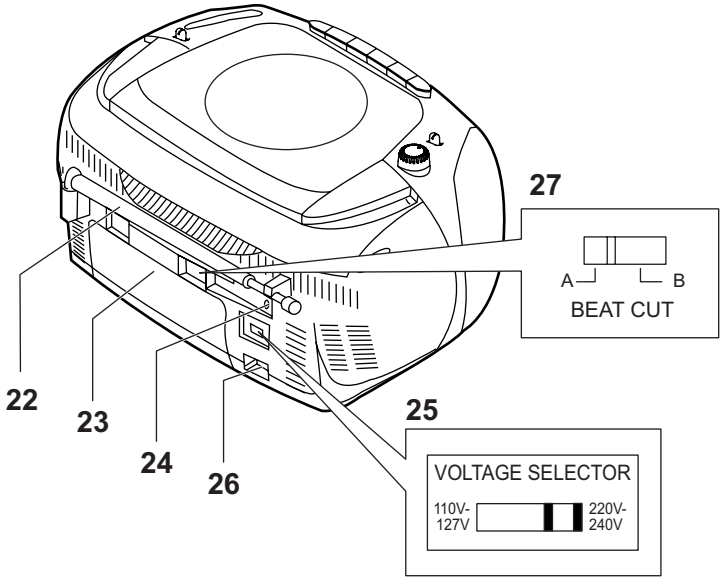
Frequency response	60 - 12,000 Hz (Normal tape)
Signal/noise ratio	40 dB
Wow and flutter	0.3% (WRMS)
Motor	DC 9 V electric governor
Bias system	AC bias
Erase system	Magnet erase

Specifications for this model are subject to change without prior notice.

Names of parts



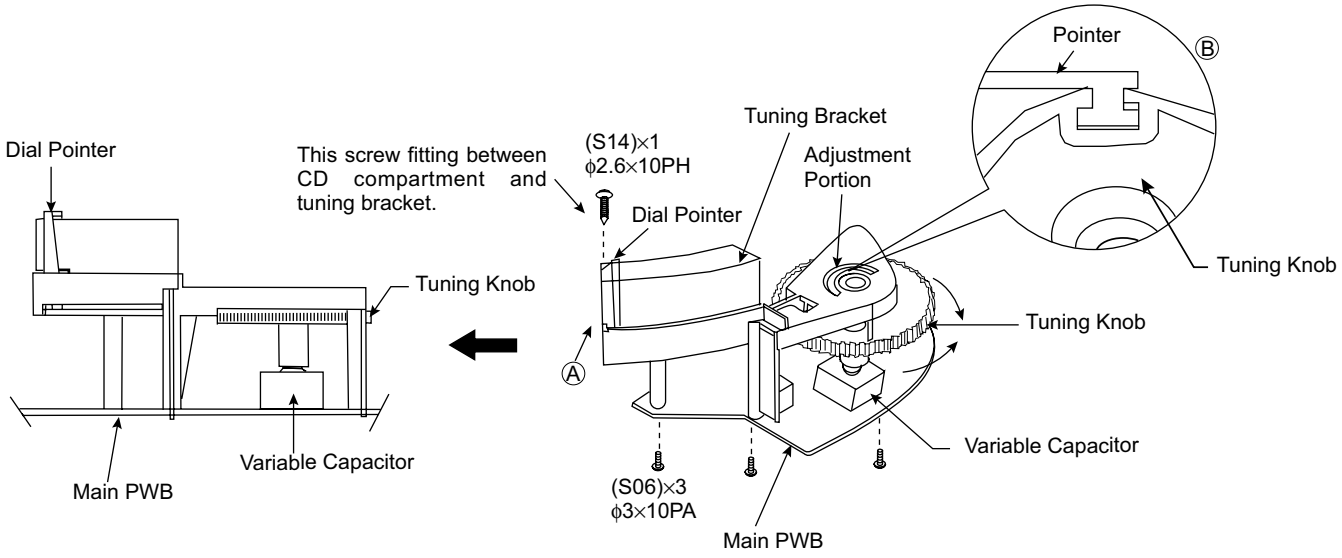
1. Function Switch
2. Volume Control
3. (Tape) Pause Button
4. (Tape) Stop/Eject Button
5. (Tape) F.Forward Button
6. (Tape) Rewind Button
7. (Tape) Play Button
8. (Tape) Record Button
9. CD Compartment
10. Tuning Control
11. Band Selector
12. (CD) Random Button
13. (CD) Stop Button
14. (CD) Track Up/F.Forward Button
15. (CD) Repeat Button
16. Cassette Compartment
17. LCD Display
18. (CD) Program Button
19. (CD) Track Down/F.Reverse Button
20. (CD) Play/Pause Button
21. Built In Microphone
22. FM Aerial
23. Battery Compartment
24. Earphone socket
25. AC Voltage Selector
26. AC Input Socket
27. Beat Cut Switch



FITTING OF DIAL POINTER

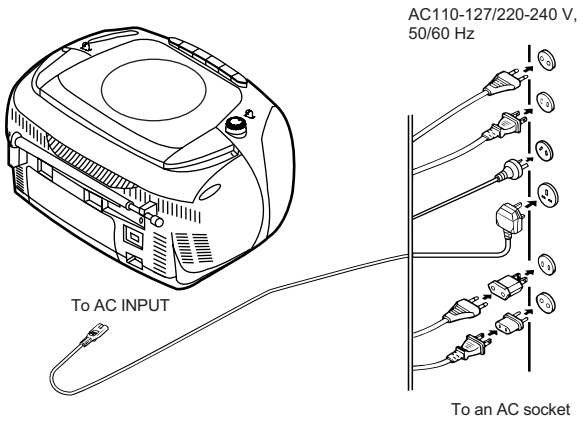
Setting method of dial pointer

1) Remove the front cabinet.
2) Remove 3 pcs screws (S06) ϕ3 x 10 PA from tuning bracket (bottom of PWB board/pattern side), and remove 1 pc screw (S14) ϕ2.6 x 10 PH from tuning bracket/CD compartment's flange (with fitting between CD compartment and tuning bracket).
3) Remove dial pointer.
4) Insert dial pointer from Ⓐ direction to tuning bracket, then engages the dial pointer's guide hook into tuning control's slot properly Ⓑ (Ensure tuning control's pin located on adjustment portion of tuning bracket.)
5) Reassemble the screws and front cabinet.

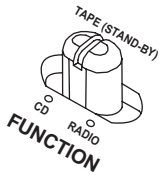


OPERATION MANUAL

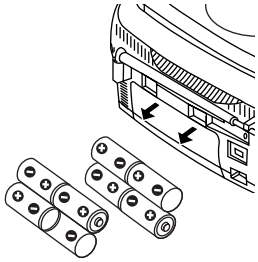
1 Preparation for use



■ **Turning the power ON and setting to the STAND-BY mode**

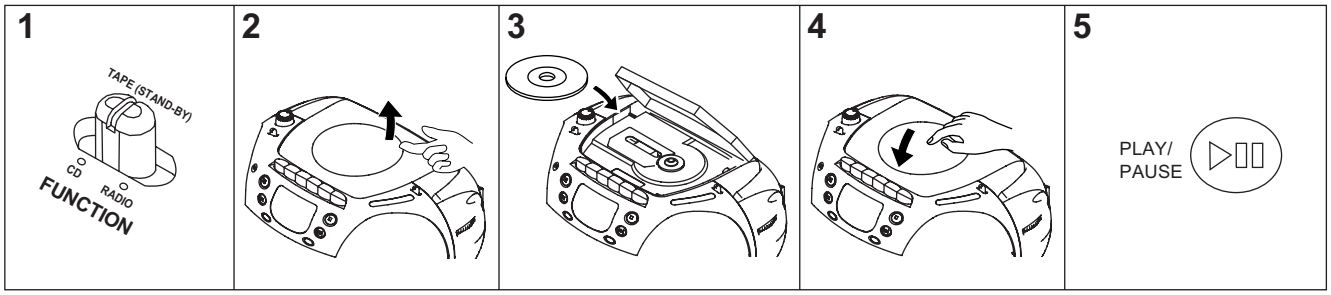


■ **Operation with batteries**

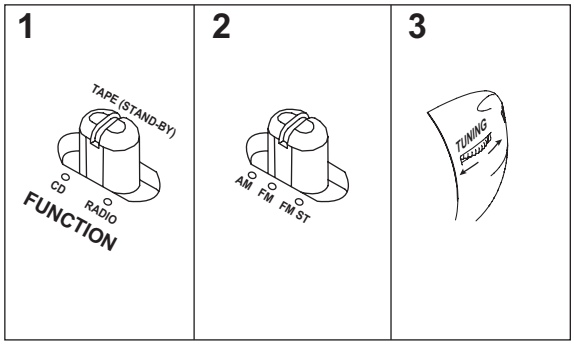


- 8 "C" size batteries (UM/SUM-2, R14)
- Batteries are not included.

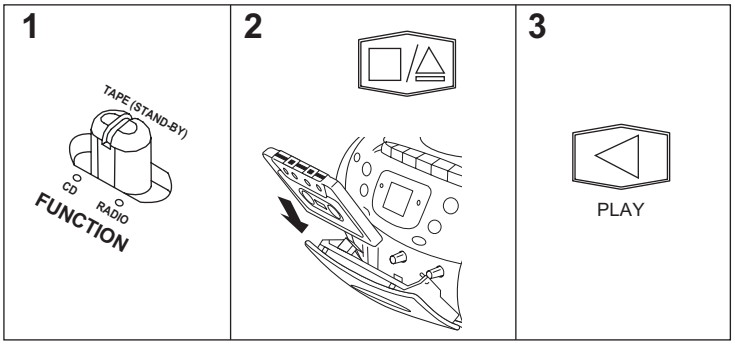
2 Listening to a CD



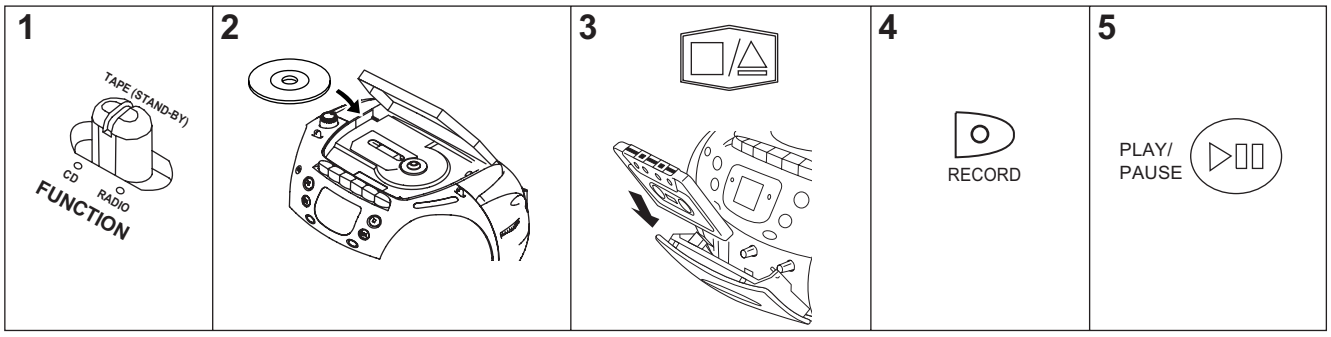
3 Listening to the Radio



4 Listening to a Cassette Tape



5 Recording from a CD



DISASSEMBLY

Caution On Disassembly

Follow the below-mentioned notes when disassembling the unit and reassembling, to keep it safe and ensure excellent performance:

1. Take cassette tape and compact disc out of the unit.
2. Be sure to remove the power supply plug from the wall outlet before starting to disassemble the unit.
3. Take off nylon bands or wire holders where they need to be removed when disassembling the unit. After servicing the unit, be sure to rearrange the leads where they were before disassembling.
4. Take sufficient care on static electricity of integraged circuits and other circuits when servicing.

STEP	REMOVAL	PROCEDURE	FIGURE
1	Rear Cabinet	Screw.....S08x5 Screw.....S06x2	5-1
2	Front Cabinet	Screw.....S06x2 Screw.....S06x4	5-1
3	Main PCB ASS'Y	Screw.....S06x7 Screw.....S02x1 Screw.....S15x1	6-1
4	CD Control PCB ASS'Y	Screw....S04x6	5-2
5	Tape Mechanism	Screw....S06x4	5-2
6	R/P PCB ASS'Y	Screw.....S06x2	5-2
7	CD Mechanism	Screw.....S11x4	6-1
8	Power PCB ASS'Y	Screw.....S02x1	6-2

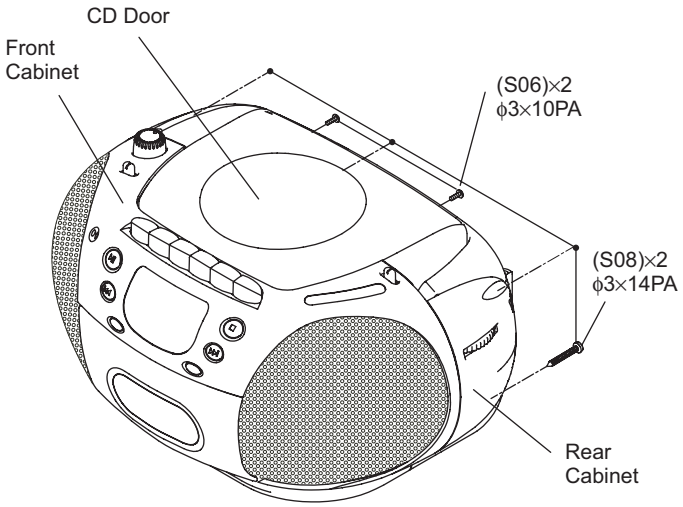


Figure 5-1

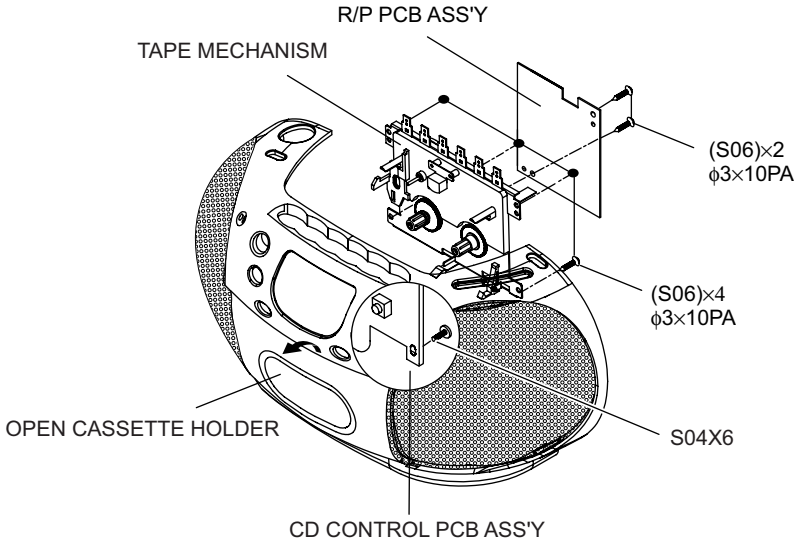


Figure 5-2

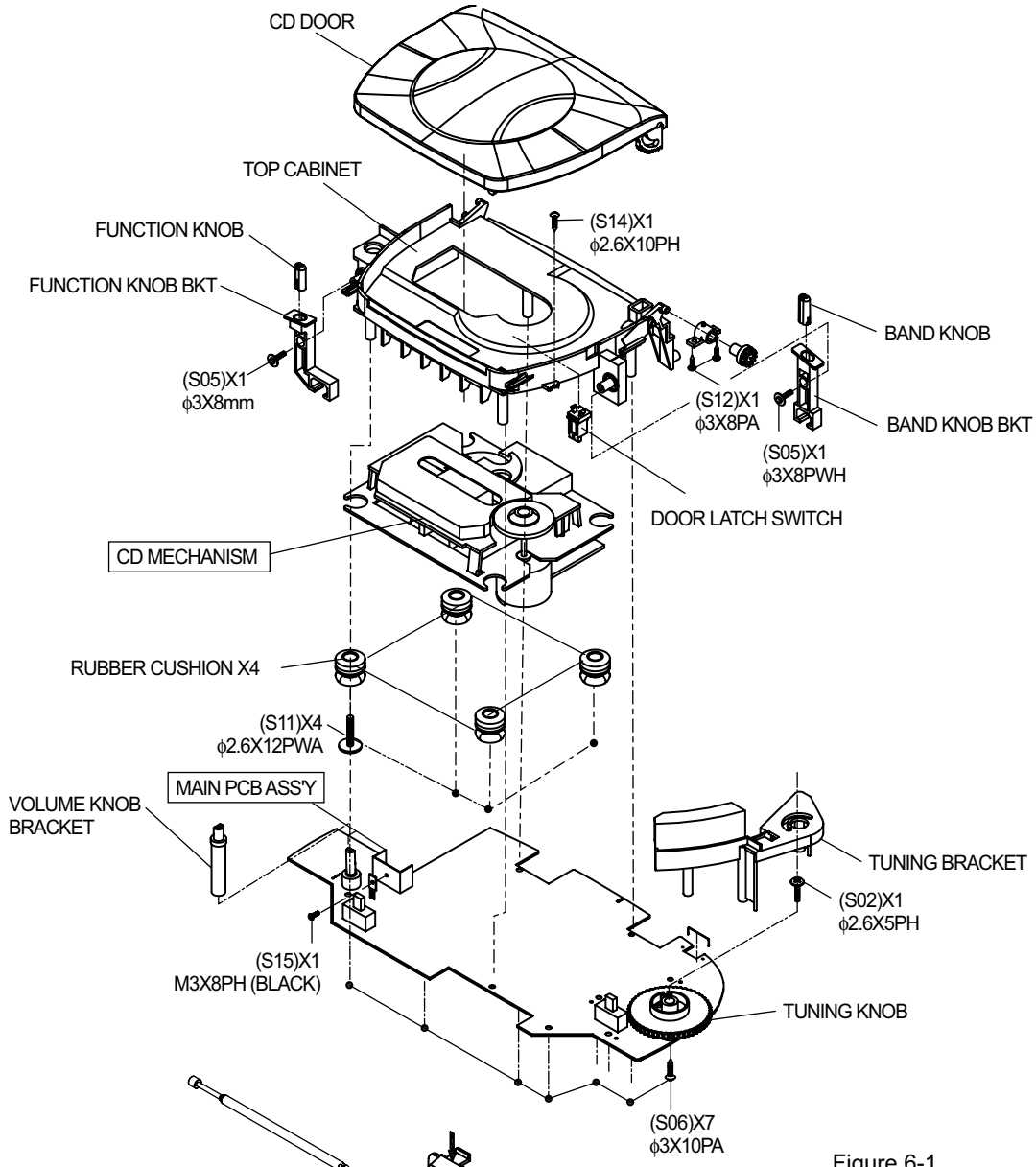


Figure 6-1

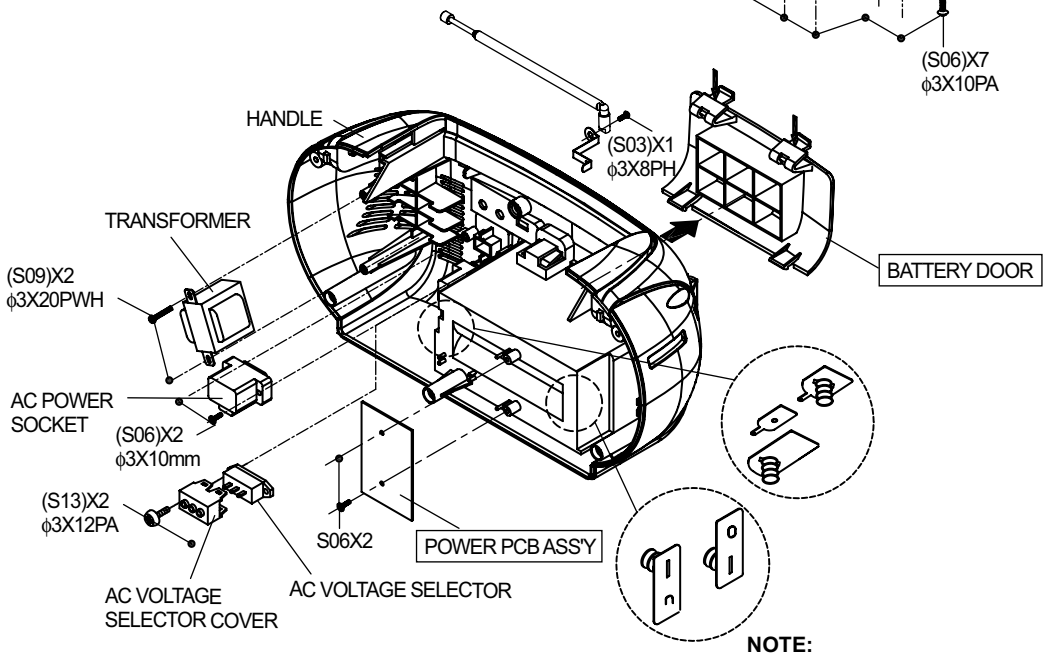
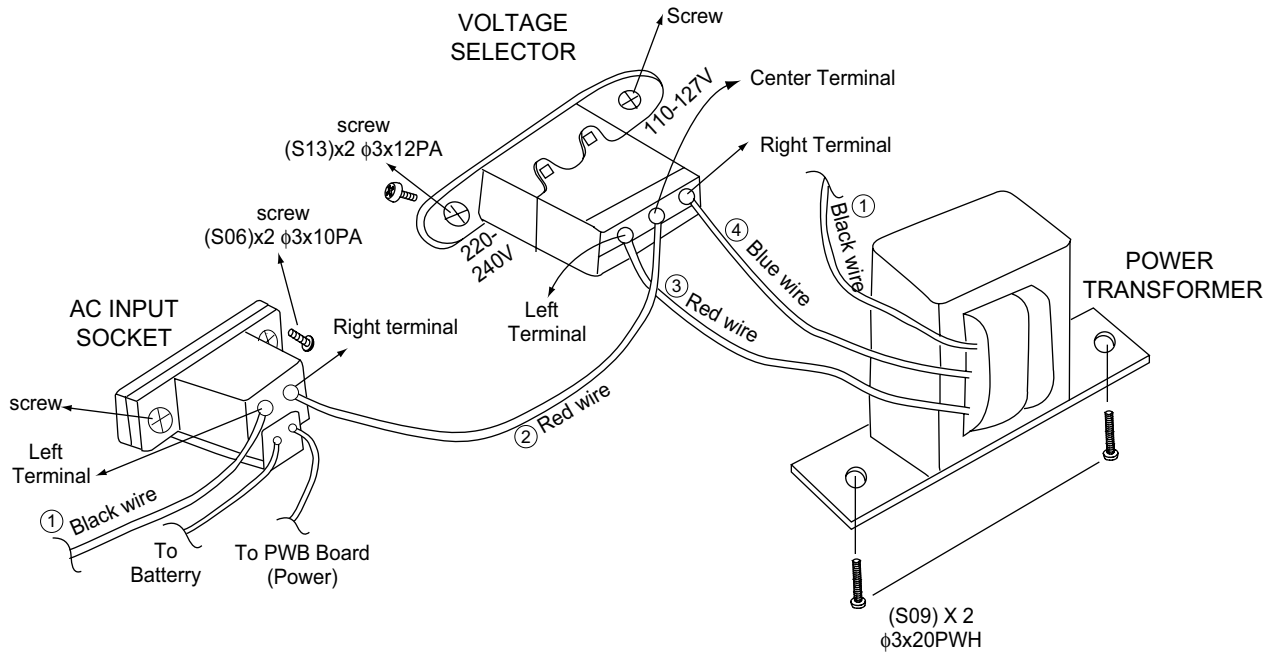


Figure 6-2

NOTE:
After removing the connector for the optical pickup from the connector, wrap the conductive aluminium foil around the front end of connector remove to protect the optical pickup from electrostatic damage.

The wire arrangement of AC Input Socket, Voltage Selector & Power Transformer.



**** Please follow the instruction of wire arrangement, to service or reinstall these critical parts.***

① **BLACK WIRE**
Connecting from Power Transformer (black wire) to AC Input Socket (left terminal).

② **RED WIRE**
Connecting from AC Input Socket (right terminal) to Voltage Selector (center terminal).

③ **RED WIRE**
Connecting from Power Transformer (red wire) to Voltage Selector (left terminal).

④ **BLUE WIRE**
Connecting from Power Transformer (blue wire) to Voltage Selector (right terminal).

ADJUSTMENT

MECHANISM SECTION

Torque	Specified Value
Play: TW-2412	Over: 80g

Torque Check

Torque Meter	Specified Value
Play TW-2111	30 to 60g.cm
Fast Forward	55 to 140g.cm
Rewing: TW-2231	55 to 140g.cm

Head Azimuth

Torque	Specified Value
MT-114	Output: Speaker terminal CN6 Load resistance: 8 ohms

Tape Speed

Test Tape	Adjusting point	Specified	Instrument Connection
MTT-111	Variable Resistor in MOTOR. M601	3.000±90Hz	Output: Speaker Terminal CN6 Load resistance: 8 Ohms

Tape Section

Position of each switch or control	
Volume control Function switch	Max Tape/Stand-by

Adjustment point	Specified Value	Instrument Connection
T101	80KHz ± 6KHz	Pin 1 CN103

TUNER SECTION

fL : Low-range frequency
fL : High-range frequency

FM IF /RF

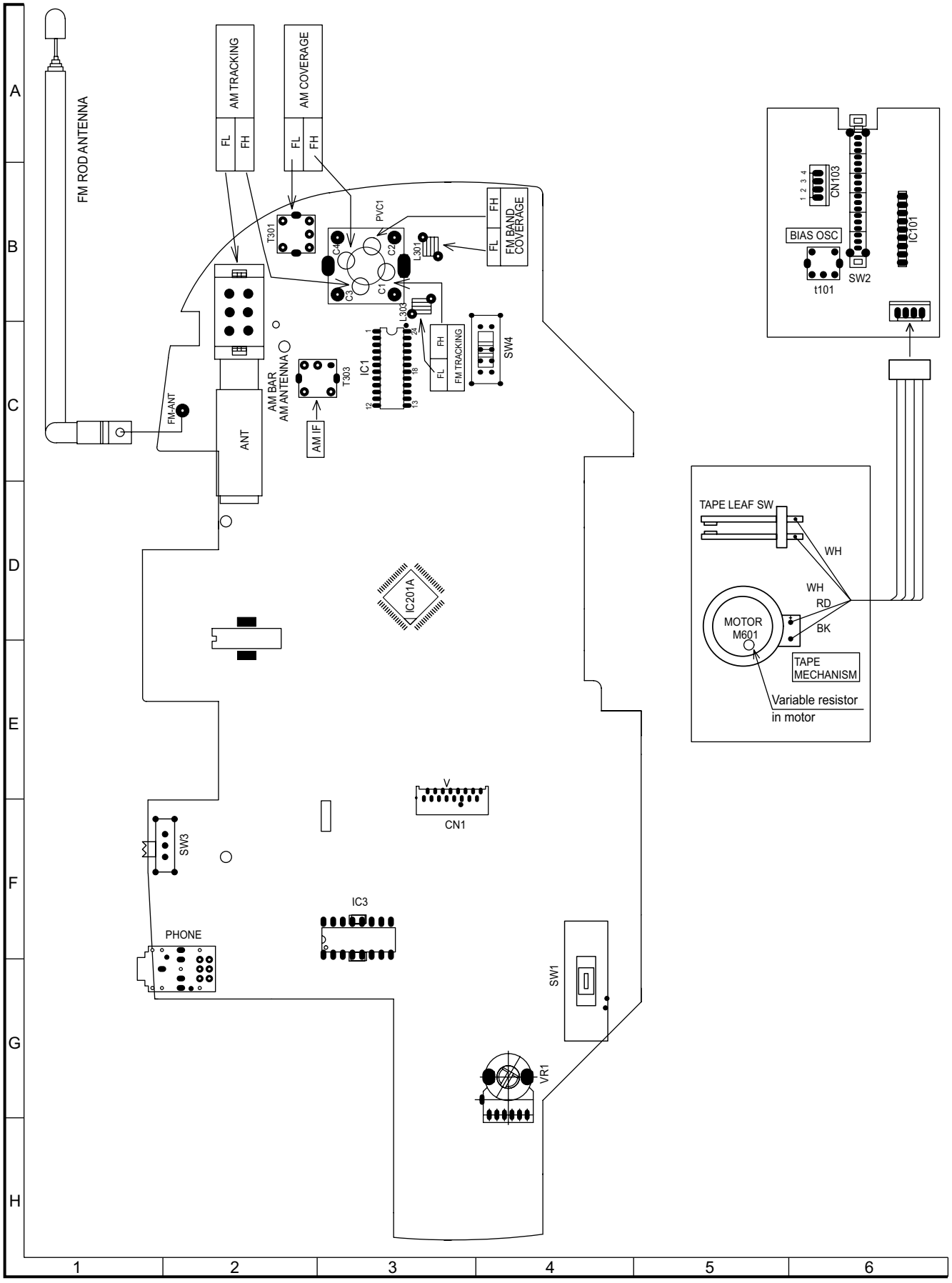
Test Stage	Specified Value/ Adjusting Point	Instrument Connection
FM Band Coverage	fL : L301 fL : C2	Input: Antenna Output: Speaker Terminal (CN6 Load resistance: 8 ohms
FM Tracking	fL : 90 MHz: L303 fH: 106.0 MHz: C1	

AM IF /RF

Test Stage	Specified Value/ Adjusting Point	Instrument Connection
AM IF	T303	Input: Antena Output: Pin 18 of IC1
AM Band Coverage	fL: T301 fL: C4	Input: Antenna Output: Speaker Terminal CN6 Load resistance: 8 ohms
AM Tracking	fL: 600KHz ANT fL: 1400KHz C3	

Playback Amplifier Sensitivity Check

Test Tape	Specified Value	Instrument Connection
MTT-118	1.5V ± 3dB	Speaker Terminal (Load resistance: 8 ohms)



Figuer 11 ADJUSTMENT POINTS

CD SECTION

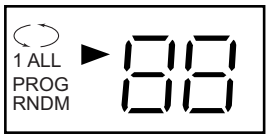
Since this CD system incorporates the following automatic adjustment function, when the pickup is replaced, it is not necessary tp readjust it.

Since this CD unit does not need adjustment, the combination of PWB and laser pickup unit is not restricted.

TEST MODE

Start	While holding down the “Stop” and “RANDOM” button simultaneously, move the FUNCTION switch to “CD”.
Note	1. When the CD DOOR switch is in the OFF position, i.e. CD DOOR is opened, the unit is now in test mode. Press the “UP/F.FORWARD” and “DOWN/F.REVERSE” buttons to move the pickup back and forth. 2. The LCD display should be the same as it is for normal CD operations.
Operation	Pressing the “UP/F.FORWARD” button will move the pickup outward. Pressing the “DOWN/F.REVERSE” button will move the pickup inward.

LCD MODE

Start	After connecting the 10kohm resistor between IC201A ⑬ pin and GND, holding down the “Stop” and “RANDOM” button simultaneously and move the FUNCTION switch to “CD”.
Display	

LASER LIGHTING CONFIRMATION

1. Remove the front cabinet according to the disassembly method.
2. Short the TP of the Figure 13-1 to turn on the CD DOOR switch (SW810).
3. While holding down the "Stop" and "RANDOM" button simultaneously, move the FUNCTION switch to "CD".
4. Open the CD DOOR and press the PLAY button. The laser lights up for a few seconds. (During this time, the pickup lens moves up and down and adjusts the focus to check if there is a disc or not.)

PREPARATION FOR LASER LIGHT UP

1. Before the laser light up, CD DOOR switch (SW810) terminals have to be short with the solder. Resistor of 330ohm is put from ⑬PIN of IC201A, and you must connect it to GND of PWB. (Refer to PWB of Figure 13-1.)

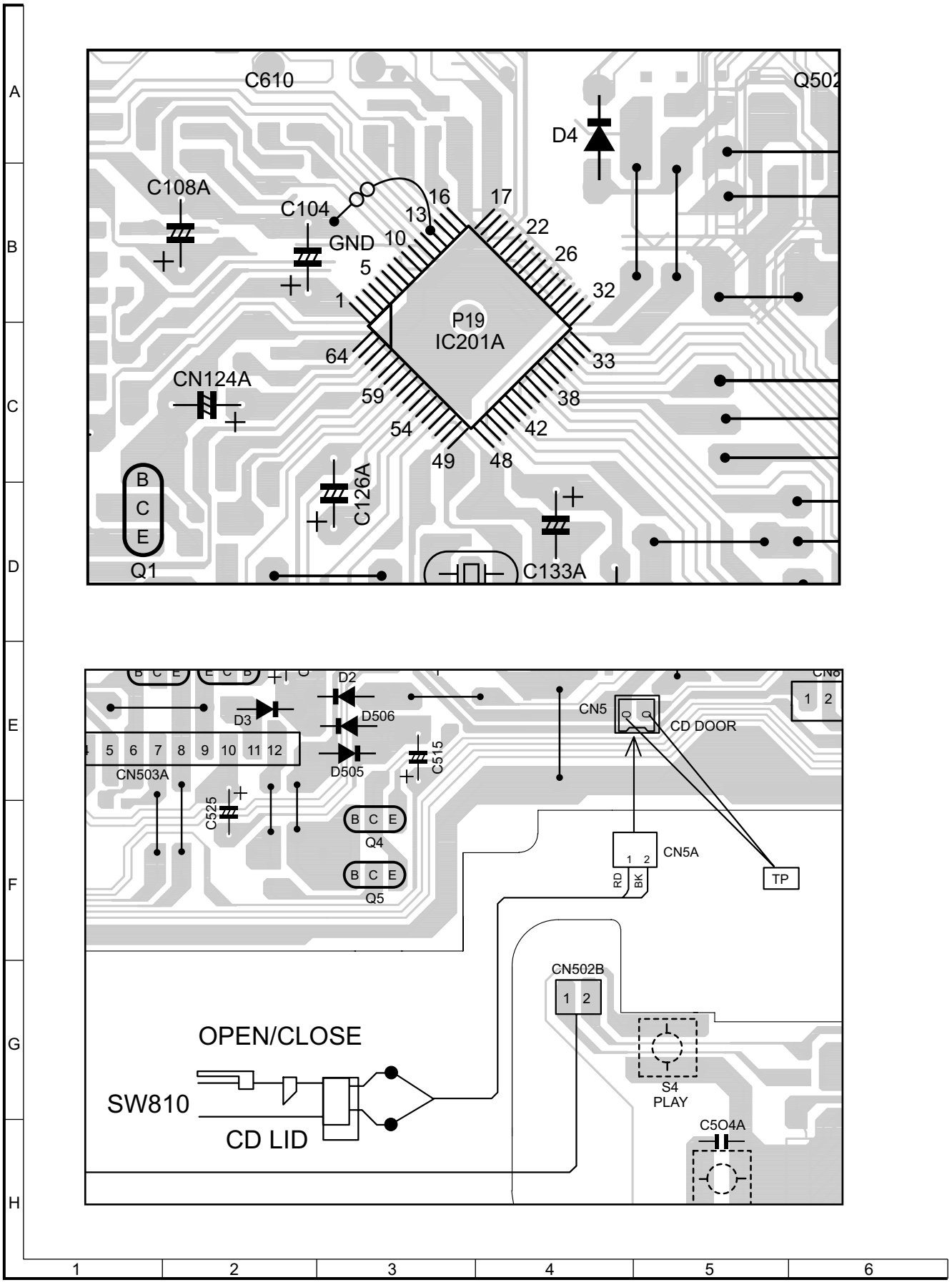

C610
Q502
D4
C108A
C104
GND
16
13
17
22
26
32
10
5
1
P19
IC201A
64
33
CN124A
59
38
54
42
49
48
B
C
E
Q1
C126A
C133A
D2
D3
D506
D505
C515
CN503A
4 5 6 7 8 9 10 11 12
C525
B C E
Q4
B C E
Q5
CN5
CD DOOR
CN6
1 2
CN5A
1 2
RD
BK
TP
CN502B
1 2
OPEN/CLOSE
SW810
CD LID
S4
PLAY
C5O4A
A
B
C
D
E
F
G
H
1
2
3
4
5
6

Figure 13-1

SETTING METHOD FOR LASER LIGHT UP

1. In power OFF state, set the Function switch to ON, keeping to be pressed the "Stop" and "RANDOM" button at same time.

   ↓

   After CD initialize finish, The CD TEST mode is set, and the LCD indicate to the total tracks of the disc .
   Release the PLAY button.

   ↓

   The CD TEST mode is set when the LCD indicate to "1".
   Then out the above circuit.

2. In above TEST mode state, press once the PLAY button.

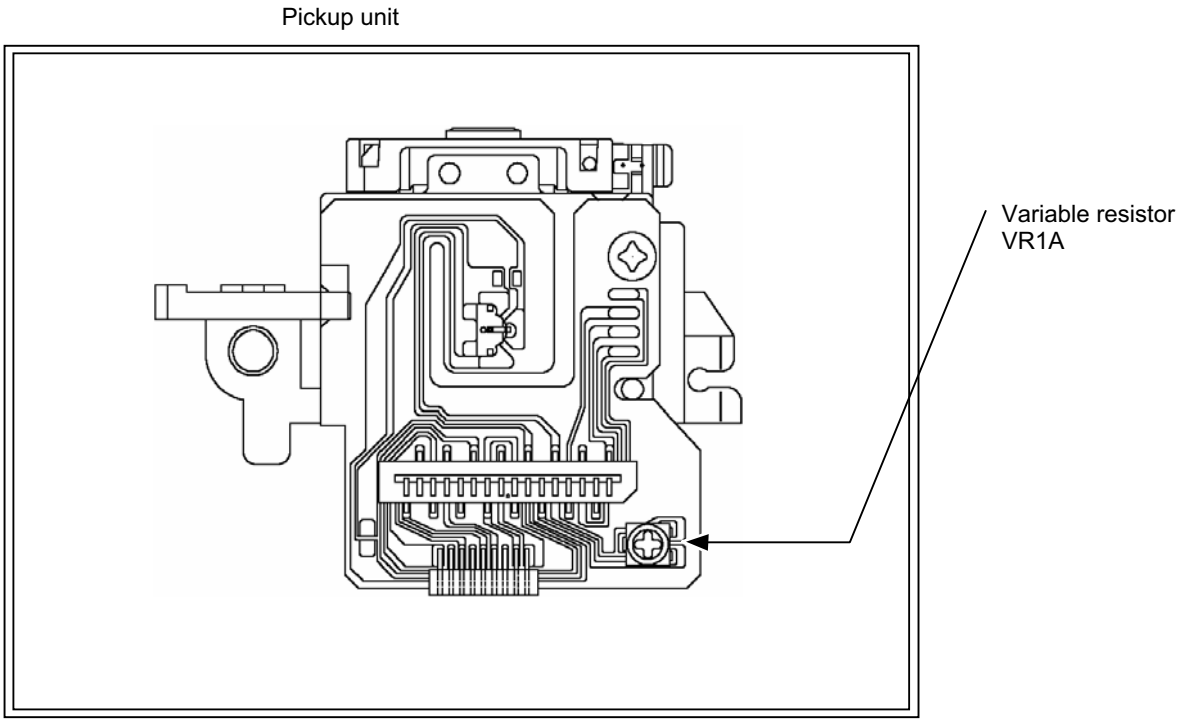
   ↓

   The laser is light up when LCD indicate to "CD".

SETTING FOR MAXIMUM LASER POWER

1. In above laser light up state, adjust the variable resistor (VR1A) on pickup PWB to maximum laser power.

   Maximum laser power: Rotate the variable resistor (VR1A) to clockwise.



Note:

The TEST mode is cleared by power OFF.

NOTES ON SCHEMATIC DIAGRAM

- Resistor:

  To differentiate the units of resistors, such symbol as K and M are used: the symbol K means 1000 ohm and the symbol M means 1000 kohm and the resistor without any symbol is ohm-type resistor. Besides, the one with “Fusible” is a fuse type.

- Capacitor:

  To indicate the unit of capacitor, a symbol P is used: this symbol P means pico-farad and the unit of the capacitor without such a symbol is microfarad. As to electrolytic capacitor, the expression “capacitance/withstand voltage” is used.

  (CH), (TH), (RH), (UJ): Temperature compensation

  (ML): Mylar type

  (P.P.): Polypropylene type

- Schematic diagram and Wiring Side of P.W.Board for this model are subject to change for improvement without prior notice.
- The indicated voltage in each section is the one measured by Digital Multimeter between such a section and the chassis with no signal given.

REF NO.	DESCRIPTION	POSITION
SW2	Record/Playback	Rec P. B
SW1	Function selector	Radio-Tape CD
SW4	Band selector	FM. ST-FM-AM
SW3	Beat cancel	A-B
SW601	Tape man	OFF-ON
SW651	Voltage selector	AC220-240V
SW702	Pickup in	AC110-127V
S4	Play/Pause	OFF-ON
S3	Stop	OFF-ON
S1	DOWN/F.REVERSE	OFF-ON
S2	UP/F.FORWARD	OFF-ON
S6	Repeat	OFF-ON
S5	Program	OFF-ON
S7	Random	OFF-ON

1. Tuner

   ( ): AM mode

   : FM mode

2. CD

   ( ): Stop state

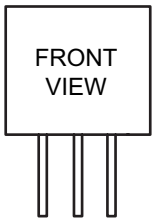
   : Play mode

3. Deck section

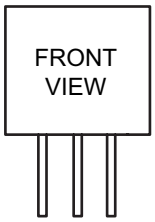
   : Stop state

- Schematic diagram and wiring side of P.W.Board for this model are subject to change for improvement without prior notice.
- Parts marked with “ ⚠ ” are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

TYPES OF TRANSISTOR



2SA933
DTA124ESA
2SB1237



9014
9015
8050

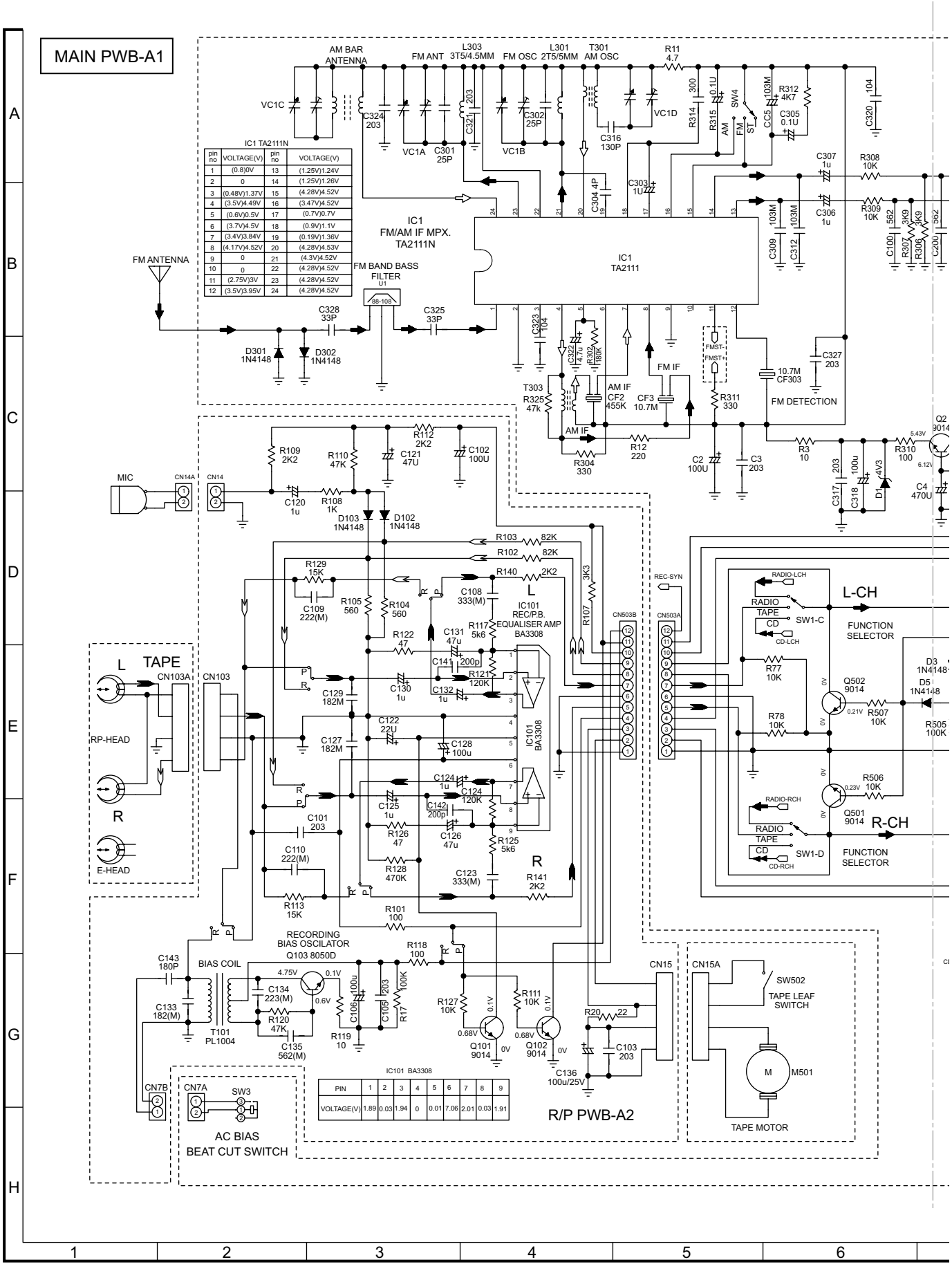


Figure 15 SCHEMATIC DIAGRAM (1/4)

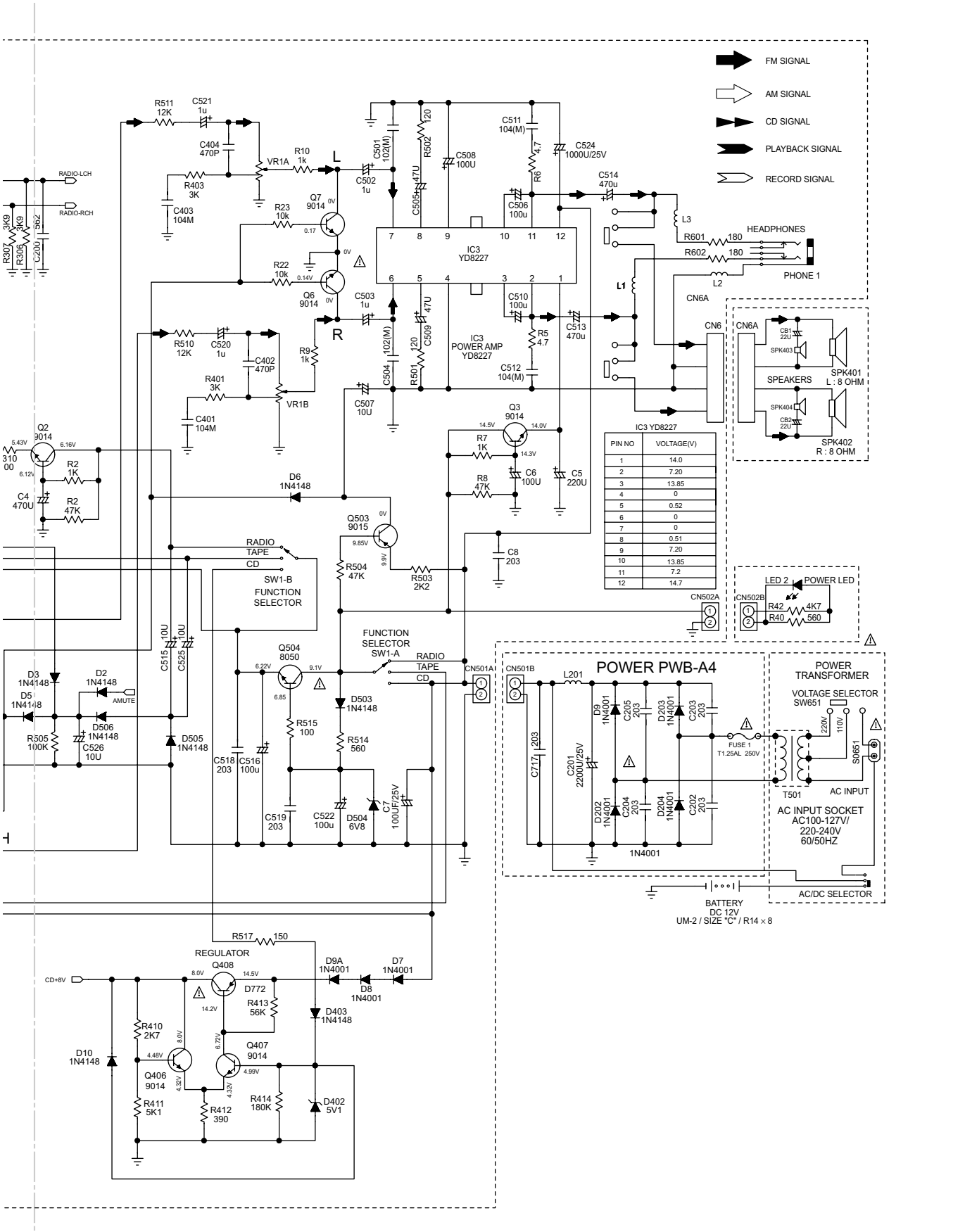
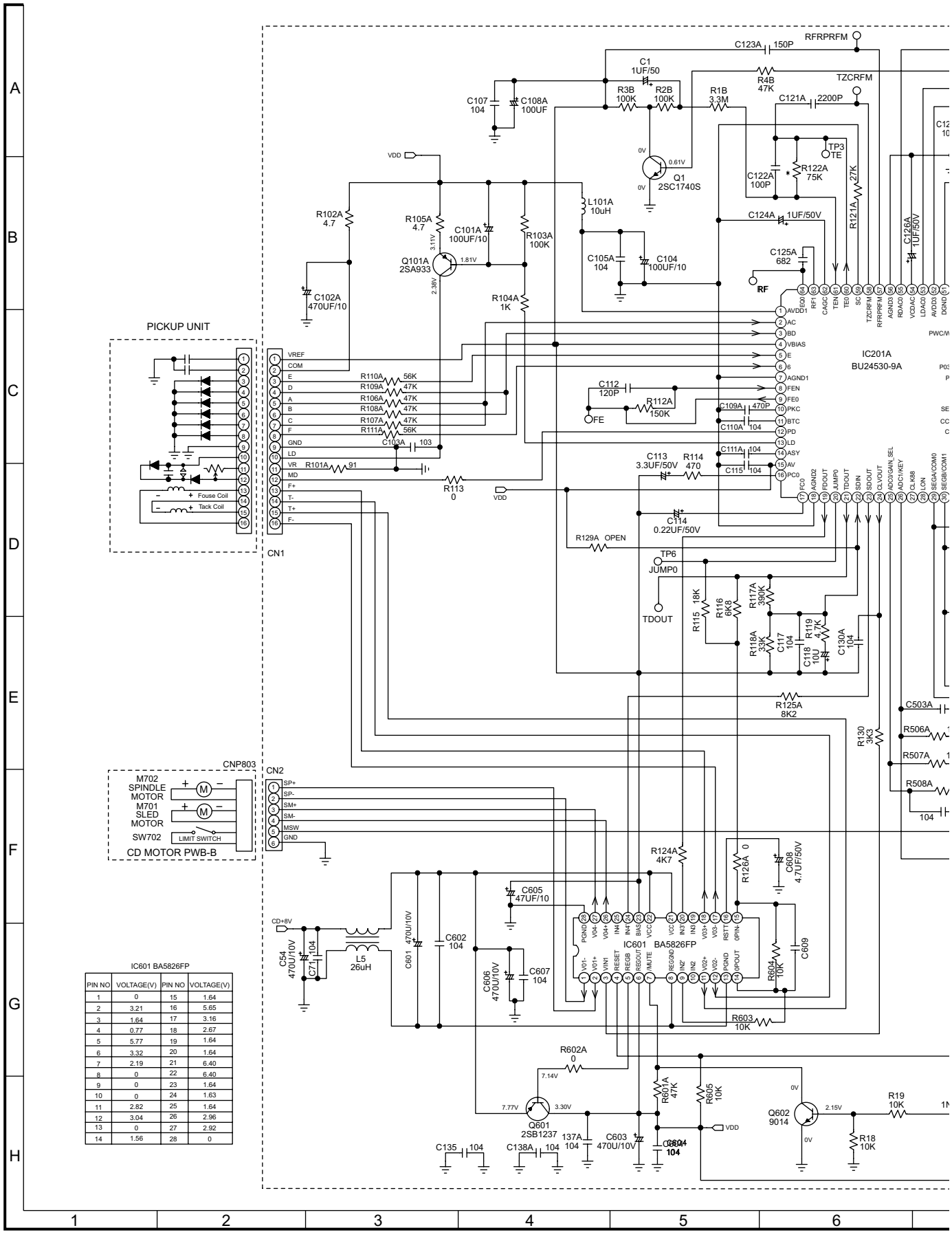


Figure 16 SCHEMATIC DIAGRAM (2/4)



IC601 BA5826FP

PIN NO	VOLTAGE(V)	PIN NO	VOLTAGE(V)
1	0	15	1.64
2	3.21	16	5.65
3	1.64	17	3.16
4	0.77	18	2.67
5	5.77	19	1.64
6	3.32	20	1.64
7	2.19	21	6.40
8	0	22	6.40
9	0	23	1.64
10	0	24	1.63
11	2.82	25	1.64
12	3.04	26	2.96
13	0	27	2.92
14	1.56	28	0

Figure 17 SCHEMATIC DIAGRAM (3/4)

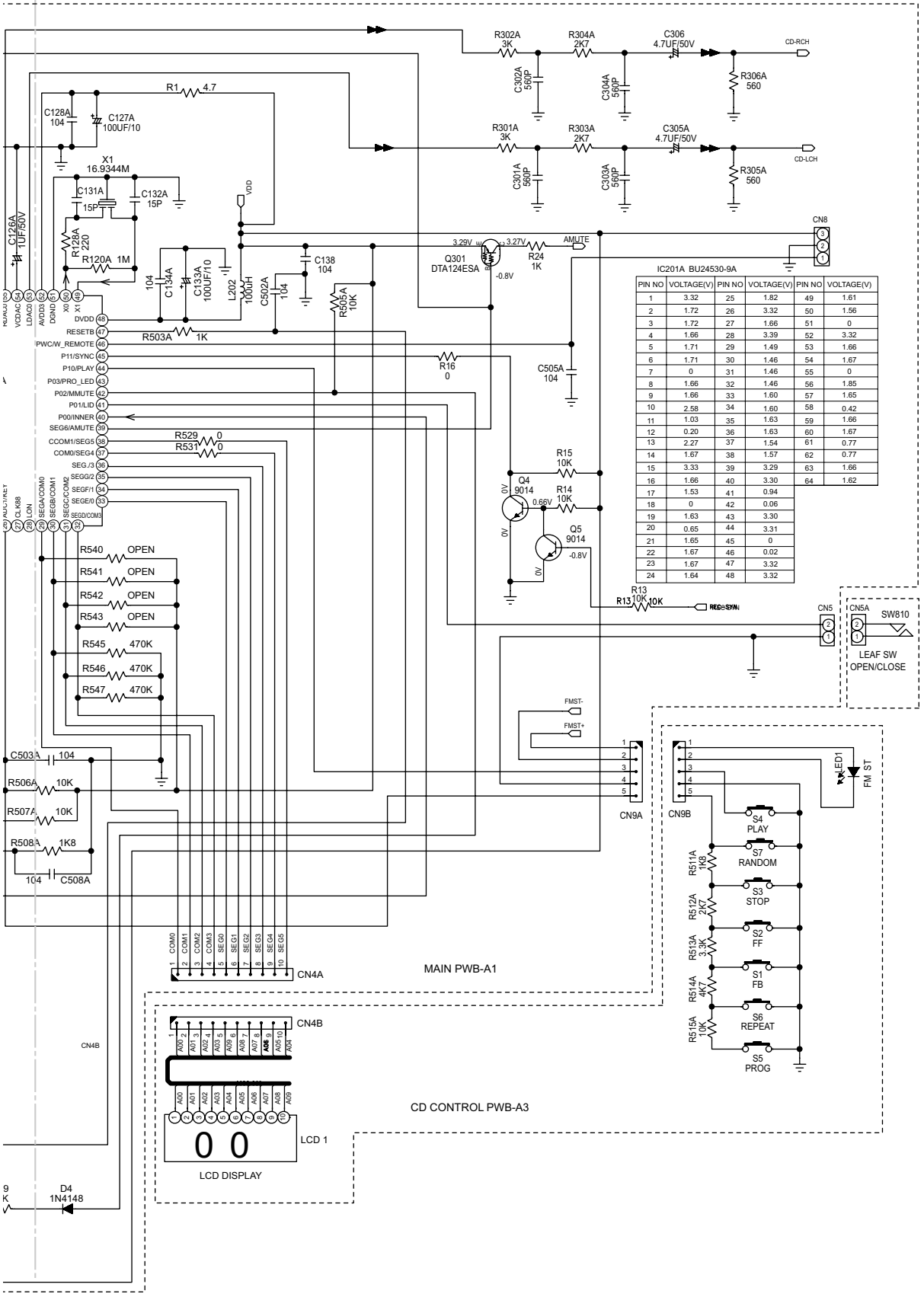


Figure 18 SCHEMATIC DIAGRAM (4/4)

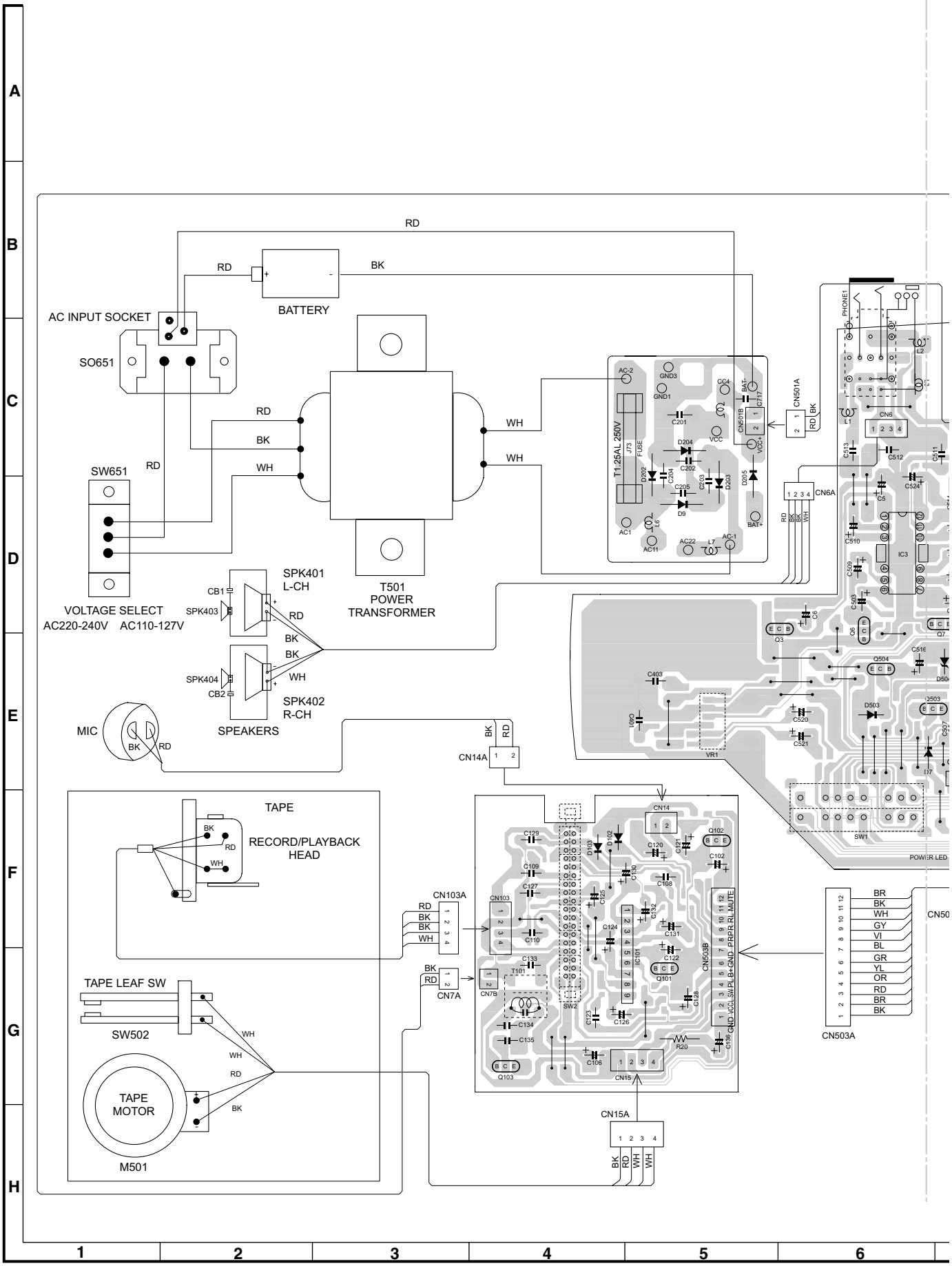


Figure 19 WIRING DIAGRAM OF P.W.BOARD (1/2)

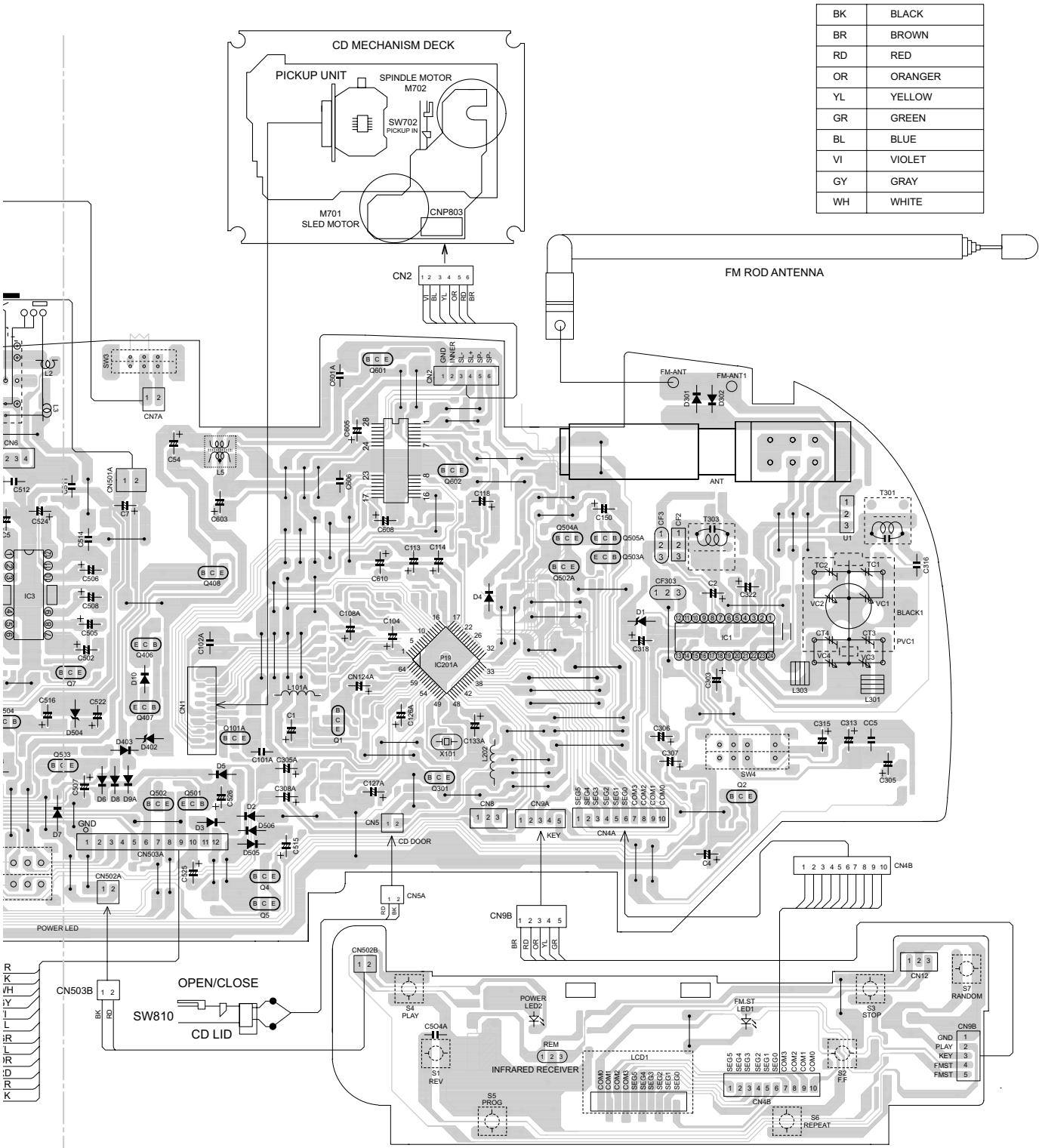


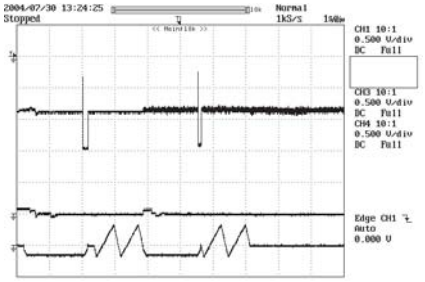
Figure 20 WIRING DIAGRAM OF P.W.BOARD (2/2)

WAVEFORMS OF CD CIRCUIT

RF: PIN64 OF IC 201A TE: PIN60 OF IC 201A TD: PIN21 OF IC 201A
FE: PIN9 OF IC 201A FD: PIN19 OF IC 201A SLED: PIN23 OF IC 201A
CH_R: PIN55 OF IC 201A CH_L:PIN53 OF IC 201A

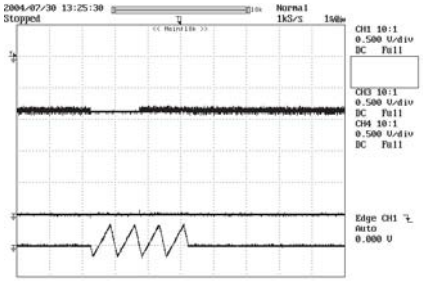
NO DISC FOCUS SEARCH (POWER ON)

① RF PIN64
② FE PIN9
③ FD PIN19



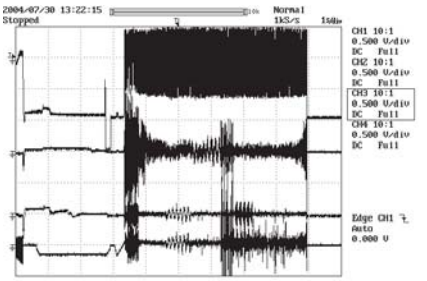
NO DISC FOCUS SEARCH (DOOR CLOSE)

① RF PIN64
② FE PIN9
③ FD PIN19



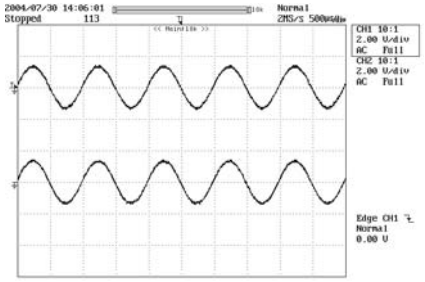
FOCUS SEARCH_TOC READ

① RF PIN64
④ TE PIN60
②FE PIN9
③ FD PIN 19



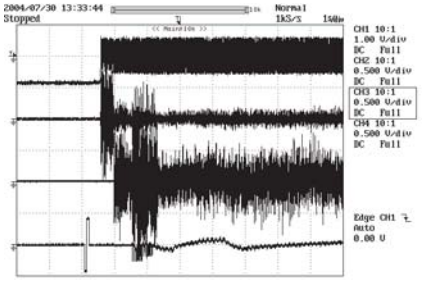
TCD-782 TNO-02 PLAY BACK

⑤ CH_R PIN55
⑥ CH_L PIN53



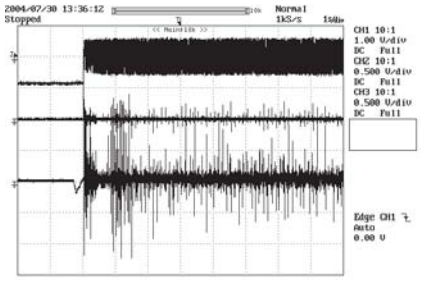
STOP-PLAY

① RF PIN64
④ TE PIN60
⑦ TD PIN21
⑧ SLED PIN23



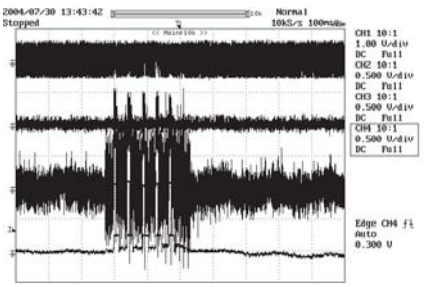
STOP-PLAY

① RF PIN64
②FE PIN9
③ FD PIN19



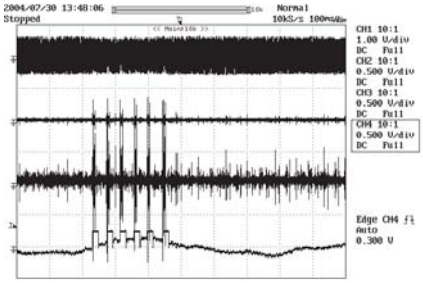
F FORWARD

① RF PIN64
④ TE PIN60
⑦ TD PIN21
⑧ SLED PIN23



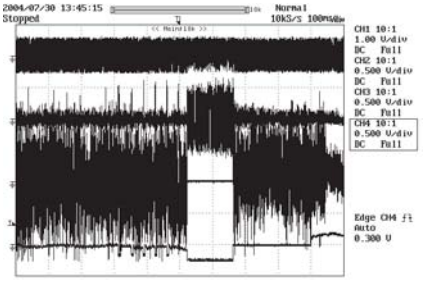
F FORWARD

① RF PIN64
② FE PIN9
③ FD PIN19
⑧ SLED PIN23



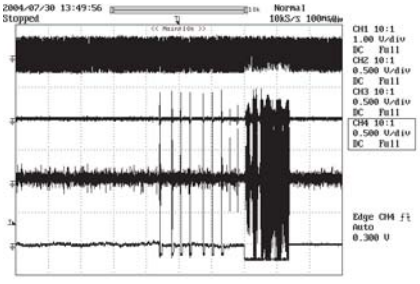
REVIEW

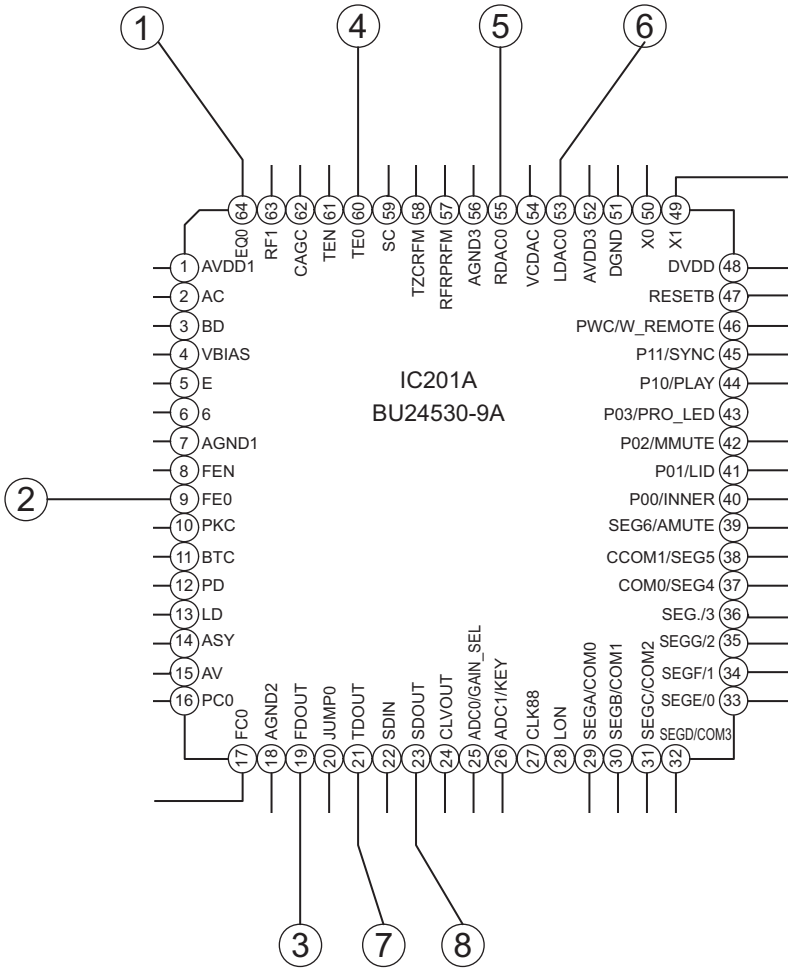
① RF PIN64
④ TE PIN60
⑦ TD PIN21
⑧ SLED PIN23



REVIEW

① RF PIN64
② FE PIN9
③ FD PIN19
⑧ SLED PIN23





The numbers 1 to 8 are waveform numbers shown in pages 22.

TROUBLESHOOTING (CD SECTION)

When the CD does not function

The CD section may not operate when the objective lens of the optical pickup is dirty. Clean the objective lens, and check the playback operation. When this section does not operate even after the above step is taken, check the following items.

Remove the cabinet and follow the trouble shooting instructions.

“Track skipping and/or no TOC (Table Of Contents) may be caused by build up of dust other foreign matter on the laser pickup lens. Before attempting any adjustment make certain that the lens is clean. If not, clean it as mentioned below.”

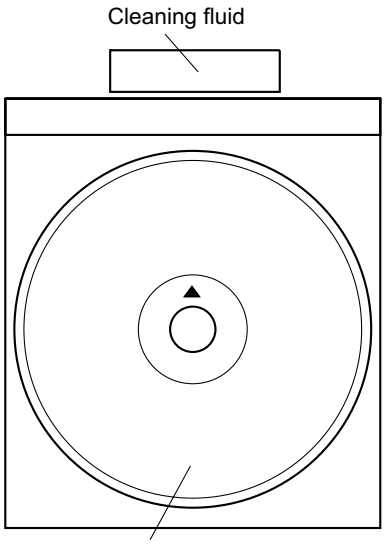
Turn the power off.

Gently clean the lens with a lens cleaning tissue and a small amount of isopropyl alcohol.

Do not touch the lens with the bare hand.

HOW TO USE

1. Using the brush in the cleaner cap, apply 1 or 2 drops of the cleaning fluid to the brush on the CD cleaner disc which has the mark ▲ next to it.
2. Place the CD cleaner disc onto the CD disc tray with the brush side down, then press the play button.
3. You will hear music for about 20 seconds and the CD player will automatically stop. If it continuous to turn, press the stop button.

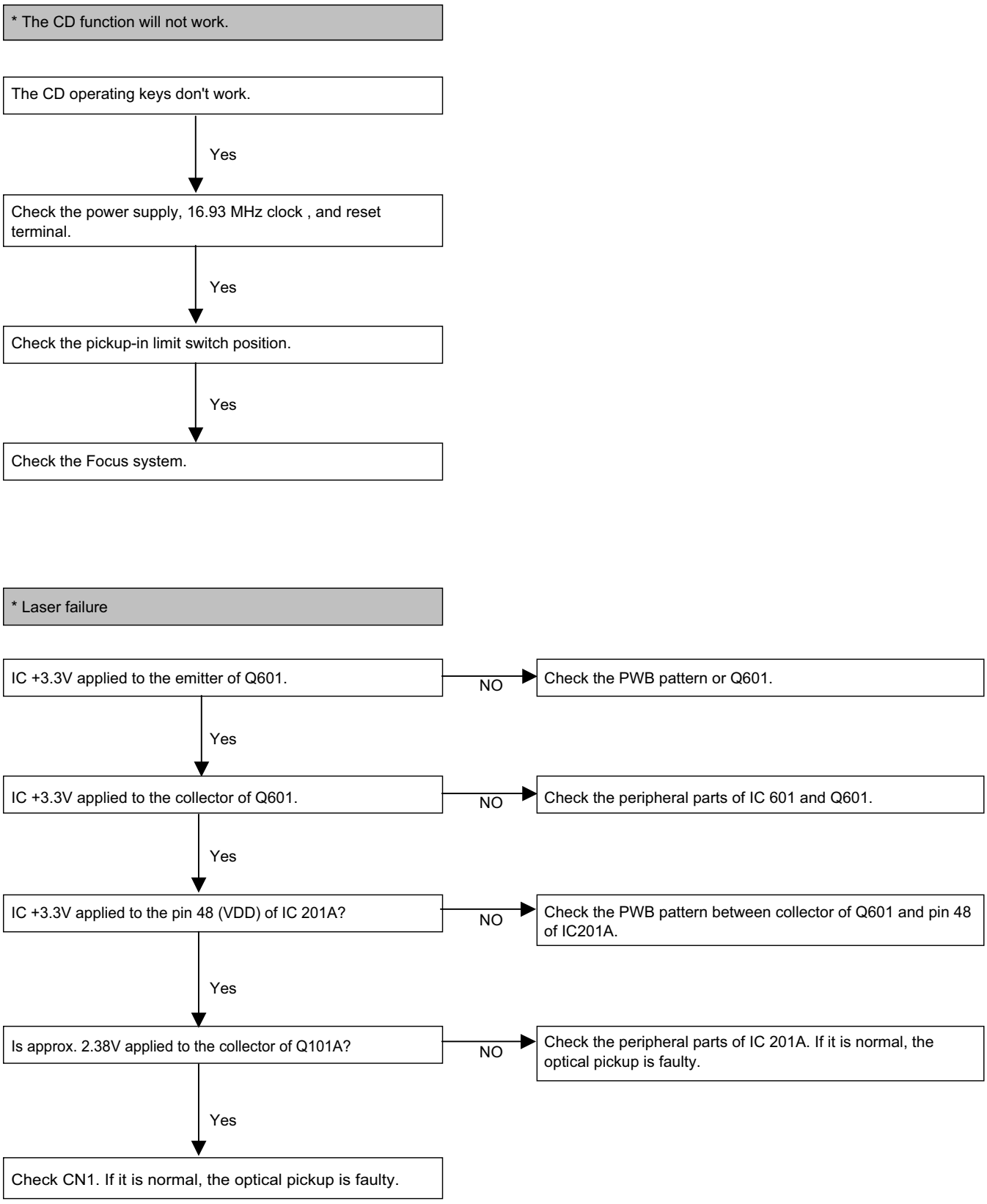


Cleaner disc
Parts code:
UDSKA0004AFZZ

CAUTION

- The CD lens cleaner should be effective for 30-50 operations, however if the brushes become worn out earlier then please the cleaner disc.
- If the CD cleaner brushes become very wet then wipe off any excess fluid with a soft cloth.
- Do not drink the cleaner fluid or allow it to come in contact with the eyes. In the event of this happening then drink and / or rinse with clean water and seek medical advice.
- The CD cleaner disc must not be used on car CD players or on computer CD-ROM drives.

All rights reserved. Unauthorized duplicating, broadcasting and renting this product is prohibited by law.


* The CD function will not work.
The CD operating keys don't work.
Yes
Check the power supply, 16.93 MHz clock , and reset terminal.
Yes
Check the pickup-in limit switch position.
Yes
Check the Focus system.
* Laser failure
IC +3.3V applied to the emitter of Q601.
NO
Check the PWB pattern or Q601.
Yes
IC +3.3V applied to the collector of Q601.
NO
Check the peripheral parts of IC 601 and Q601.
Yes
IC +3.3V applied to the pin 48 (VDD) of IC 201A?
NO
Check the PWB pattern between collector of Q601 and pin 48 of IC201A.
Yes
Is approx. 2.38V applied to the collector of Q101A?
NO
Check the peripheral parts of IC 201A. If it is normal, the optical pickup is faulty.
Yes
Check CN1. If it is normal, the optical pickup is faulty.

* Focus failure

Does the optical pickup move up and down when the disc is removed?

Check as stated in item "FOCUS SERVO SAWTOOTH WAVE FAILURE"

Yes

Is the following waveform output at the pin 8 (FEN) of IC101A when the disc is set?

No

Check the periphery of IC101A and CN1. Is it normal?

Yes

Yes

PIN 8
(FEN)

The optical pickup is faulty.

IC101A is faultly.

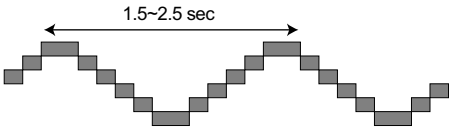
* Focus servo sawtooth wave fallure.

Is sawtooh wave output to the pin 19 (FDOUT) of IC101A ?

No

IC101A is faultly.

Yes



Is +8V applied to the pins 21 and 22 (VCC) of IC601?

No

Check the PWB pattern of IC601.

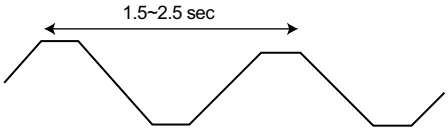
Yes

Is sawtooth wave obtained between pins 17 and 18 of IC601?

No

Check the PWB pattern of IC601.

Yes



Is sawtooth wave obtained between pins 3 and 4 of CN1? (as shown above)

No

Check the PWB pattern between CN1 and IC601.

Yes

CN1 connection failure or optical pickup failure.

* Spindle motor

IC101A when the function is changed to "PLAY" from "STOP"?

Yes

Check the procedure in "HE ERROR".
If OK. IC101A is faulty.

Is above wave obtained between pins 1 and 2 of IC601?

Yes

No

Check the PWB pattern between pin 24 (CLVOUT) of IC101A and pins 5 and 6 of IC601. If OK. IC601 is faulty.

Is above wave obtained between pins 5 and 6 of CN2?

Yes

No

Check the PWB pattern between CN2 and IC601.

CN2 connection failure of optical pickup failure.

* Track search failure

Does the slide motor run in UP/DOWN state when the CD TEST MODE is set?

Yes

No

Check as stated in item "SLIDE MOTOR OPERATION FAILURE".

Is the following wave output to the pin 21 (TDOUT) of IC101A during track search in normal playback?

Yes

No

IC101Afailure.

TDOUT

Is the following wave output to the pin 60 (TEO) of IC101A during track search in normal playback?

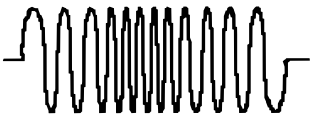
Yes

No

Check the PWB pattern between pin 21 (TDOUT) of IC101A and pin 15 of IC601.
Check the PWB pattern between pins 26 and 27 of IC601 and Optical pickup.
If OK. Optical pickup failure.

TEO

TEN



Is the above wave output to the pins 61(TEN) and 60(TEO) of IC101A during track search in normal playback?

Yes

No

Check the PWB pattern between pin 60 (TEO) of IC101A and pins 61 (TEN) and 60 (TEO) of IC101A. If OK. IC101A failure.

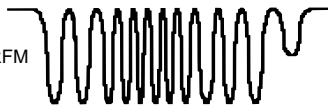
Is the following wave output to the pin 57 (RFRPRFM) and 58 (TLCRFM) of IC101A2 during track search in normal playback?

Yes

No

Check the PWB pattern between pin 63 (RFI) and pin 64 (EQO).
If ok. IC101A failure.

TLCRFM



Normal.

RFRPRFM

* Slide motor operation failure.

Is following slide feed signal output the pin 23 (SDOUT) of IC101A when UP/DOWN key is pressed after the CD TEST MODE is set?

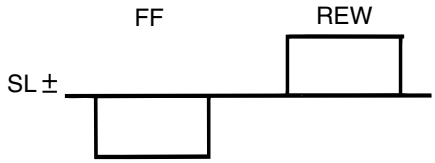
No → IC101A is faulty.

Yes

Is following slide feed signal input the pins 12 and 13 IC601 when UP/DOWN key is pressed after the CD TEST MODE is set?

No → Check the PWB pattern between pin 23 of IC101A and pins 12 and 13 of IC601.

Yes



Is slide feed signal output the pins 1 and 2 of IC601?

No → Check the peripheral parts of IC601. If OK, IC601 is faulty.

Yes

Is slide feed voltage applied between both terminals of slide motor?

No → Check the CN2.

Yes

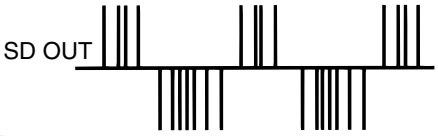
Check the CD mechanism (periphery of slide motor). If the slide motor does not run when DC2.0V is applied to both terminals of slide motor, the slide motor is faulty.

* Slide servo failure.

Is following slide signal output the pin 23 (SD OUT) of IC101A during playback?

No → IC101A is faulty.

Yes



Normal.

FUNCTION TABLE OF IC201A

Terminal No.	Terminal Name	Analog/ Digital	I/O	Function	Equivalent circuit
1	AVDDI	Analog	-	Analog power terminal for RF system	-
2	AC	Analog	I	A+C voltage input terminal from pickup	1
3	BD	Analog	I	B+D voltage input terminal from pickup	1
4	VBIAS	Analog	O	Bias level (VDD/2) output terminal	2
5	E	Analog	I	E voltage input terminal from pickup	1
6	F	Analog	I	F voltage input terminal from pickup	1
7	AGND1	Analog	-	GND terminal for RF system analog	-
8	FEN	Analog	I	Focus error to amplifier feedback input terminal	3
9	FEO	Analog	O	Focus error output terminal	3
10	PKC	Analog	O	RF signal peak detector capacity connecting terminal	4
11	BTC	Analog	O	RF signal bottom detector capacity connecting terminal	5
12	PD	Analog	I	APC photo detector input terminal	6
13	LD	Analog	O	APC laser drive output terminal	6
14	ASY	Analog	I	C-fitted terminal for comparator slice for asymmetric correction	7
15	AVDD2	Analog	-	Servo system analog power terminal	-
16	PCO	Analog	O	PLL PCO output terminal	8
17	FCO	Analog	O	PLL FCO-DAC output	8
18	AGND2	Analog	-	Servo system analog GND terminal	-
19	FDOUT	Analog	O	Focus drive output	9
20	JUMPO	Analog	O	Tracking jump pluse output terminal	9
21	TDOUT	Analog	O	Tracking drive output terminal	9
22	SDIN	Analog	I	Sled signal input terminal	10
23	SDOUT	Analog	O	sled drive output terminal	9
24	CLVOUT	Analog	O	CLV drive output terminal	9
25	ADC0	Analog	I	Analog data input / 1-bit input terminal	11
26	ADC1	Analog	I	Analog data input / 1-bit input terminal	11
27	CLK88	Digital	O	Clock output terminal for driver IC	12
28	LON	Digital	O	Laser ON control output terminal	12
29	P20/COM0	Digital	I/O	4-bit parallel output port / LCD common output terminal	11
30	P21/COM1	Digital	I/O	4-bit parallel output port / LCD common output terminal	11
31	P22/COM2	Digital	I/O	4-bit parallel output port / LCD common output terminal	11
32	P23/COM3	Digital	I/O	4-bit parallel output port / LCD common output terminal	11
33	SEG0	Digital	O	4-bit parallel output port / LCD segment output terminal	11
34	SEG1	Digital	O	4-bit parallel output port / LCD segment output terminal	11
35	SEG2	Digital	O	4-bit parallel output port / LCD segment output terminal	11
36	SEG3	Digital	O	4-bit parallel output port / LCD segment output terminal	11
37	SEG4	Digital	O	2-bit parallel output port / LCD segment output terminal	11
38	SEG5	Digital	O	2-bit parallel output port / LCD segment output terminal	11
39	SEG6	Digital	O	1-bit output port / LCD segment output terminal	11
40	P00	Digital	I/O	4-bit parallel inout orontput terminal (Open Drain output type)	11
41	P01	Digital	I/O	4-bit parallel inout orontput terminal (Open Drain output type)	11
42	P02	Digital	I/O	4-bit parallel inout orontput terminal (Open Drain output type)	11
43	P03	Digital	I/O	4-bit parallel inout orontput terminal (Open Drain output type)	11
44	P10	Digital	I/O	2-bit parallel inout orontput terminal (Open Drain output type)	11
45	P11	Digital	I/O	2-bit parallel inout orontput terminal (Open Drain output type)	11
46	PWC/W	Digital	I	Pulse input / General 1-bit input terminal	11
47	RESETB	Digital	I	System reset terminal ("L" reset condition)	13
48	DVDD	Digital	-	Digital power terminal	-

Description of Terminals (1/2)

Terminal No.	Terminal Name	Analog/ Digital	I/O	Function	Equivalent circuit
49	XI	Digital	I	X'tal 16.9344MHz connecting (input) terminal	14
50	XO	Digital	-	X'tal 16.9344MHz connecting terminal	14
51	DGND	Digital	-	Digital GND terminal	-
52	AVDD3	Digital	O	Audio system analog power terminal	-
53	LDACO	Analog	O	Audio Lch output terminal	15
54	VCDAC	Analog	O	Audio system reference voltage output terminal	15
55	RDACO	Analog	O	Audio Rch output terminal	15
56	AGND3	Analog	-	Audio system analog GND terminal	-
57	RFRORFM	Analog	O	C-fitted terminal for RFRP/#2 output terminal for RF test monitor	16
58	TZCRFM	Analog	O	C-fitted terminal for TZX/ #1 output terminal for RF test monitor	17
59	SC	Analog	I	Scratch depth adjust resistor connecting terminal	18
60	TEI	Analog	O	Tracking error output terminal	3
61	TEN	Analog	I	Tracking erro to amplifier feedback input terminal	3
62	CAGC	Analog	I	C-fitted terminal for constant at RFAGC	19
63	RFI	Analog	I	RF output capacity combined data re-input terminal	20
64	EQO	Analog	O	After-RF-equalizer output terminal	20

Description of Terminals (2/2)

SHARP PARTS GUIDE

PORTABLE CD STEREO SYSTEM

MODEL QT-CD700W

"HOW TO ORDER REPLACEMENT PARTS"

To have your order filled promptly and correctly, please furnish the following information.

1. MODEL NUMBER
2. REF. No.
3. PART NO.
4. DESCRIPTION

★ MARK: SPARE PARTS-DELIVERY SECTION

For U.S.A. only

Contact your nearest SHARP Parts Distributor to order.

For location of SHARP Parts Distributor,
Please call Toll-Free;
1-800-BE-SHARP

Explanation of capacitors/resistors parts codes

Capacitors

VCC ..... Ceramic type
VCK..... Ceramic type
VCT ..... Semiconductor type
VC • • MF ..... Cylindrical type (without lead wire)
VC • • MN..... Cylindrical type (without lead wire)
VC • • TV ..... Square type (without lead wire)
VC • • TQ ..... Square type (without lead wire)
VC • • CY ..... Square type (without lead wire)
VC • • CZ ..... Square type (without lead wire)
VC • • • • • • • • • • J .. The 13th character represents capacity difference.
("J" ±5%, "K" ±10%, "M" ±20%, "N" ±30%,
"C" ±0.25 pF, "D" ±0.5 pF, "Z" +80-20%.)

If there are no indications for the electrolytic capacitors, error is ±20%.

Resistors

VRD ..... Carbon-film type
VRS..... Carbon-film type
VRN ..... Metal-film type
VR • • MF ..... Cylindrical type (without lead wire)
VR • • MN..... Cylindrical type (without lead wire)
VR • • TV ..... Square type (without lead wire)
VR • • TQ ..... Square type (without lead wire)
VR • • CY ..... Square type (without lead wire)
VR • • CZ ..... Square type (without lead wire)
VR • • • • • • • • • • J .. The 13th character represents error.
("J" ±5%, "F" ±1%, "D" ±0.5%.)

If there are no indications for other parts, the resistors are ±5% carbon-film type.

Parts marked with "⚠" are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

SHARP CORPORATION

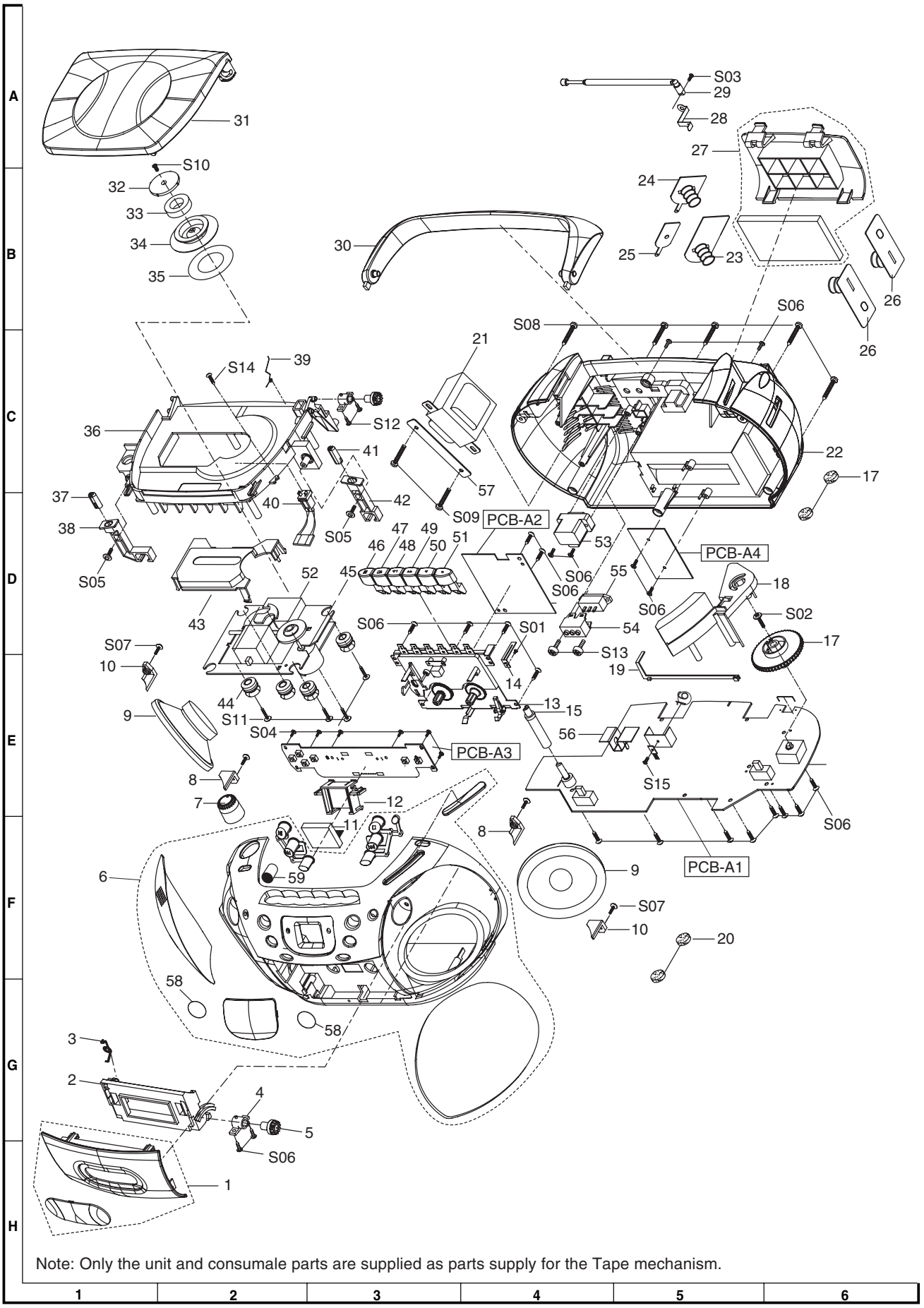
This document has been published to be used for after sales service only.
The contents are subject to change without notice.

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[1] CAPACITORS					
C1	92L27500105070	AB			1UF +/-20% 50V 5 X 11
C3	92L27100203008	AC			0.02uF 0805 +80% -20% 50V
C4	92L27500107020	AB			100UF +/-20% 10V 5 X 11
C5	92L27500227040	AB			220UF ±20% 16V 6.3 X 11
C6	92L27500107040	AB			100UF ±20% 16V 5 X 11
C7	92L27500107050	AB			100UF +/-20% 25V 6.3 X 11
C8	92L27100203008	AC			0.02uF 0805 +80% -20% 50V
C54	92L27500477020	AF			470UF +/-20% 10V 8 X 12
C71	92L27100104106	AH			0.1UF 0603 +/-10% 25V
C100,C200	92L27100562106	AB			5600PF +/-10% 0603 50V
C101,C103	92L27100203008	AC			0.02uF 0805 +80% -20% 50V
C101A	92L27500107020	AB			100UF +/-20% 10V 5 X 11
C102,C106	92L27500107020	AB			100UF +/-20% 10V 5 X 11
C102A	92L27500477020	AF			470UF +/-20% 10V 8 X 12
C103A	92L27100103106	AC			0.01UF 0603 +/-10% 50V/25V
C104	92L27500107020	AB			100UF +/-20% 10V 5 X 11
C105	92L27100203008	AC			0.02uF 0805 +80% -20% 50V
C105A,C107	92L27100104106	AH			0.1UF 0603 +/-10% 25V
C108A	92L27500107020	AB			100UF +/-20% 10V 5 X 11
C109,C110	92L27600222220	AB			0.0022UF ± 10% 100V
C109A	92L27100471106	AC			470PF 0603 +/-10% 50V
C110A	92L27100104106	AH			0.1UF 0603 +/-10% 25V
C111A	92L27100104106	AH			0.1UF 0603 +/-10% 25V
C112	92L27100121106	AB			120P 0603 +/-10% 50V
C113	92L27500335070	AB			3.3UF ±20% 50V 5 X 11
C114	92L27500224070	AB			0.22UF ±20% 50V 5 X 11
C115,C117	92L27100104106	AH			0.1UF 0603 +/-10% 25V
C118	92L27500106040	AD			10UF ±20% 16V 5 x 11
C120	92L27500105070	AB			1UF +/-20% 50V 5 X 11
C121,C122	92L27500476020	AB			47UF +/-20% 10V 5 X 11
C121A	92L27100222106	AB			0.0022UF 0603 +/-10% 50V/25V
C122A	92L27100101106	AB			100PF +/-10% 0603 50V
C123,C108	92L27600333220	AC			0.033UF 100V +/-10%
C123A	92L27100151106	AB			150P +/-10% 0603
C124,C125	92L27500105070	AB			1UF +/-20% 50V 5 X 11
C124A	92L27500105070	AB			1UF +/-20% 50V 5 X 11
C125A	92L27100682106	AB			0.0068UF 0603 +/-10% 50V
C126,C131	92L27500476020	AB			47UF +/-20% 10V 5 X 11
C126A	92L27500105070	AB			1UF +/-20% 50V 5 X 11
C127,C129	92L27600182220	AB			0.0018UF +/-10% 100V
C127A,2,	92L27500107020	AB			100UF +/-20% 10V 5 X 11
C128	92L27500107020	AB			100UF +/-20% 10V 5 X 11
C128A	92L27100104106	AH			0.1UF 0603 +/-10% 25V
C130,C132	92L27500105070	AB			1UF +/-20% 50V 5 X 11
C130A	92L27100104106	AH			0.1UF 0603 +/-10% 25V
C131A,C132A	92L27100150106	AB			15P 0603 +/-10% 50V
C133	92L27600182220	AB			0.0018UF +/-10% 100V
C133A	92L27500107020	AB			100UF +/-20% 10V 5 X 11
C134	92L27600223220	AB			0.022UF +/- 20% 100V
C134A	92L27100104106	AH			0.1UF 0603 +/-10% 25V
C135	92L27600562220	AB			0.0056UF +/-10% 100V
C135A	92L27100104106	AH			0.1UF 0603 +/-10% 25V
C136	92L27500227040	AB			220UF ±20% 16V 6.3 X 11
C137A	92L27100104106	AH			0.1UF 0603 +/-10% 25V
C138	92L27100104106	AH			0.1UF 0603 +/-10% 25V
C138A	92L27100104106	AH			0.1UF 0603 +/-10% 25V
C141,C142	92L27100201506	AB			200P +/-5% 0603
C143	92L27100181508	AB			180P +/-5% 0805
C201	92L27500228050	AF			2200UF ±20% 25V 13 X 25
C202-C205	92L27000203630	AB			0.02UF+80%-20%50V 5.5x2.5
C301A-C304A	92L27100561106	AC			560PF 0603 +/-10% 50V
C302,C301	92L27100250506	AB			25PF 0603 +/-5% 50V
C303	92L27500105070	AB			1UF +/-20% 50V 5 X 11
C304	92L27100030506	AB			3PF 0603 +/-5% 50V
C305	92L27500104070	AB			0.1UF +/-20% 50V 5 X 11
C305A,C306A	92L27500475070	AC			4.7UF +/-20% 50V 5 X 11
C306,C307	92L27500105070	AB			1UF +/-20% 50V 5 X 11
C309	92L27100103106	AC			0.01UF 0603 +/-10% 50V/25V
C312	92L27100103106	AC			0.01UF 0603 +/-10% 50V/25V
C314	92L27100301106	AB			300PF +/-10% 50V
C315	92L27500104070	AB			0.1UF +/-20% 50V 5 X 11
C316	92L27700131200	AD			130PF +/-5% 50V
C317,C321	92L27100203008	AC			0.02uF 0805 +80% -20% 50V
C318	92L27500107020	AB			100UF +/-20% 10V 5 X 11
C320	92L27100104106	AH			0.1UF 0603 +/-10% 25V
C322	92L27500475070	AC			4.7UF +/-20% 50V 5 X 11
C323	92L27100104106	AH			0.1UF 0603 +/-10% 25V
C324,C327	92L27100203008	AC			0.02uF 0805 +80% -20% 50V
C328,C325	92L27100330506	AB			33PF 0603 +/-5%
C401	92L27600104220	AC			0.1UF +/-10% 100V
C402,C404	92L27100471106	AC			470PF 0603 +/-10% 50V
C403	92L27600104220	AC			0.1UF +/-10% 100V
C501	92L27100102106	AB			0.001UF 0603 +/-10% 50V
C502	92L27500105070	AB			1UF +/-20% 50V 5 X 11
C502A	92L27100104106	AH			0.1UF 0603 +/-10% 25V

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[1] CAPACITORS					
C503	92L27500105070	AB			1UF +/-20% 50V 5 X 11
C503A	92L27100104106	AH			0.1UF 0603 +/-10% 25V
C504	92L27100102106	AB			0.001UF 0603 +/-10% 50V
C505	92L27500476040	AC			47UF ±20% 16V 5 X 11
C505A	92L27100104106	AH			0.1UF 0603 +/-10% 25V
C506	92L27500107040	AB			100UF ±20% 16V 5 X 11
C507	92L27500106040	AD			10UF ±20% 16V 5 x 11
C508	92L27500107040	AB			100UF ±20% 16V 5 X 11
C508A	92L27100104106	AH			0.1UF 0603 +/-10% 25V
C509	92L27500476040	AC			47UF ±20% 16V 5 X 11
C510	92L27500107040	AB			100UF ±20% 16V 5 X 11
C511,C512	92L27600104220	AC			0.1UF +/-10% 100V
C513,C514	92L27500477020	AF			470UF +/-20% 10V 8 X 12
C515	92L27500106040	AD			10UF ±20% 16V 5 x 11
C516	92L27500107040	AB			100UF ±20% 16V 5 X 11
C518,C519	92L27100203008	AC			0.02uF 0805 +80% -20% 50V
C520,C521	92L27500105070	AB			1UF +/-20% 50V 5 X 11
C522	92L27500107020	AB			100UF +/-20% 10V 5 X 11
C524	92L27500108050	AE			1000UF +/- 20% 25V 10X 20
C525	92L27500106040	AD			10UF ±20% 16V 5 x 11
C526	92L27500225070	AB			2.2UF +/-20% 50V 5 X 11
C601A	92L27500477020	AF			470UF +/-20% 10V 8 X 12
C602	92L27100104106	AH			0.1UF 0603 +/-10% 25V
C603	92L27500477020	AF			470UF +/-20% 10V 8 X 12
C604	92L27100104106	AH			0.1UF 0603 +/-10% 25V
C605	92L27500476040	AC			47UF ±20% 16V 5 X 11
C606	92L27500227020	AC			220UF +/-20% 10V 6.3 X 11
C607	92L27100104106	AH			0.1UF 0603 +/-10% 25V
C608	92L27500475070	AC			4.7UF +/-20% 50V 5 X 11
C717	92L27600103220	AB			0.01UF +/-10% 100V
CB1,CB2	92L27540226040	AC			22UF +/-20% 16V 5x11mm "NP"
CC5	92L27600103220	AB			0.01UF +/-10% 100V
[2] TRANSISTORS					
Q1-Q7	92L2830901403A	AB			PSS9014C
Q101,Q102	92L2830901403A	AB			PSS9014C
Q101A	92L28300933000	AD			LOW SIGNAL 2SA933ASR
Q103	92L28318050000	AC			ZQT8050D
Q301	92L28300124100	AD			DTA124ESA
Q406,Q407	92L2830901403A	AB			PSS9014C
Q408	92L28300772010	AE			B772
Q501,Q502	92L2830901403A	AB			PSS9014C
Q503	92L28309015030	AC			9015C EBC
Q504	92L28308050030	AC			8050C
Q601	92L28301237000	AE			2SB1237Q
Q602	92L2830901403A	AB			PSS9014C
[3] DIODES					
D1	92L28200430010	AC			4.3V 1/2W
D2-D6	92L28104148000	AB			IN-4148
D7,D8	92L28104001300	AB			IN-4001 RECTIFIER
D9	92L28104001300	AB			IN-4001 RECTIFIER
D9A	92L28104001300	AB			IN-4001 RECTIFIER
D10	92L28104148000	AB			IN-4148
D102,D103	92L28104148000	AB			IN-4148
D202-D204	92L28104001300	AB			IN-4001 RECTIFIER
D301,D302	92L28104148000	AB			IN-4148
D402	92L28200510010	AC			5.1V 1/2W (A)
D403,D503	92L28104148000	AB			IN-4148
D504	92L28200680010	AC			6.8V 1/2W
D505,D506	92L28104148000	AB			IN-4148
[4] FILTERS					
CF2	92L27204553230	AC			SFU455B MURATA
CF3	92L27201075132	AC			CDA 10.7MHz RED TDK
CF303	92L27201075122	AD			CDA 10.7 MHz RED
U1	92L27310205031	AG			88-108MHz GFMB3 SE
[5] COILS					
L1-L3	92L29435150000	AF			15uHX0.5 TC-150M-0.5A-5032
L5	92L29435160000	AD			16uHx2 TC-160M-1065
L101A,L202	92L29430100000	AC			10uH
L301	92L30050021080	AB			5.0 X 2.5T 0.8mm CW
L303	92L30045031080	AB			4.5 X 3.5 T 0.8mm CW
[6] TRANSFORMERS					
⚠ T501	92L29547041100	AX			EI-41 119V/230V XDB4126-320
[7] IFT					
T101	92L30470125110	AE			10 X 10mm PL10-04 AC BIAS
T301	92L30400020511	AD			10 X 10mm ML10-37B RED AM OSC
T303	92L29607222140	AD			10X10mm YELLOW 460KHz TF10-22 AM IF

	NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
	[8] INTEGRATED CIRCUITS					
	IC1	92L28402111001	AN			TA2111N HaiWei
	IC3	92L28408227020	AK			YD8227 HDIP12
	IC101	92L28403308000	AH			BA3308
	IC201A	92L28424530000	BA			BU24530-9A
	IC601	92L28405826000	AM			BA5826FP
	[9] VIBRATOR					
	X101	92L23400209000	AE			16.93MHz MIDAS
	[10] OTHER CIRCUITRY PARTS					
	B "- "	92L33326181010	AA			#26L=180mmBLACK
	BATT "+"	92L33326181012	AA			#26L=180mm RED
	CN1	92L33616100100	AE			16 PIN WAFER, P=1.0mm
	CN2	92L33517110060	AE			6 PIN HOUSING WIRE, #30 UL1007 110mm 1H
	CN4A	92L33610210020	AC			10 PIN WAFER, P=2.0 PH-10P
	CN4A	92L33500161110	AF			10 PIN GREY WIRE, L=160mm P=2.0mm 1H
	CN5	92L33602210104	AB			2 PIN WAFER, P=2mm PH-2A YELLOW
	CN5A	92L33526121142	AC			UL 1007 #26 L=120mm P=2.0mm
	CN6	92L33604210109	AB			4 PIN WAFER, P=2.0mm PH-4A BLACK
	CN6A	92L33526381194	AE			#26 L=(220×2+380×2) UL 1007 P=2.0mm
	CN7A	92L33526181192	AC			2 PIN HOUSING WIRE, UL1007#26 180mm 1HP=2.0mm
	CN7B	92L33602210109	AB			2 PIN WAFER, P=2mm PH-2A BLACK
	CN9A	92L33605210100	AB			5 PIN WAFER, P=2mm S2M-5W SHS
	CN9A	92L33526150050	AD			5 PIN HOUSING WIRE, UL1007 #26 150mm P=2
	CN14	92L33625010025	AB			2 PIN WAFER, PITCH 2.5mm XH-2A GREEN
	CN14A	92L33428253152	AE			#28 L=253mm
	CN15	92L33625010412	AB			4 PIN WAFER, P=2.5mm XH-4A RED
	CN103	92L33625010420	AB			4 PIN WAFER, PITCH 2.5mm C-XH-4W
	CN501	92L33522221102	AD			2 PIN HOUSING WIRE, #22 UL1007 220mm P=2.5mm
	CN501B	92L33625010021	AB			2PIN WAFER, PITCH 2.5mm S11-2W
	CN502A	92L33602210102	AA			2 PIN WAFER, P=2mm PH-2A RED
	CN502B	92L33526181122	AC			2 PIN HOUSING WIRE, UL1007#26 180mm 1HP=2.0mm
	CN503A	92L33526151120	AG			12 PIN HOUSING WIRE, #26 L=150mm P=2.5mm 1H
	CN503B	92L33612310000	AC			12 PIN WAFER, P=2.5mm SNR
⚠	F101	92L32305125251	AE			1.25A 250V 5X20mm W/"CCEE"
	LCD1	92L34207040000	AK			SDT-DA672-RP-1
	LED1	92L24609060131	AC			3mm GREEN
	LED2	92L24600050130	AC			3mm RED DR-304
	MIC	92L28700100021	AF			9.7 x 6.7mm CZN15E-623 DONGRI
⚠	PHONE1	92L26400125551	AG			SLIDE SWITCH, 3.5MM DAIICHI EJS-5-0735G-01
	SO651	92L25800125000	AG			AC INPUT SOCKET, VDE PSE27
	SPK101	92L30308303077	AV			SPEAKER 77mm 8 OHM 3W YD78-82-3W-8
	SPK102	92L30308303077	AV			SPEAKER 77mm 8 OHM 3W YD78-82-3W-8
	SPK403	92L29300180000	AE			PIEZO ϕ18mm
	SPK404	92L29300180000	AE			PIEZO ϕ18mm
⚠	SW1	92L29143120100	AG			SLIDE SWITCH, 2P3T SS4304RG120 TRAVEL:3mm
	SW2	92L29162000002	AE			PUSH SWITCH, 6P2T PS6205N
	SW3	92L29112090230	AE			SLIDE SWITCH, SKG-12F04-G9-NA TRAVEL:3mm
	SW4	92L29123140100	AE			SLIDE SWITCH, 2P3T SS2356PG140 TRAVEL:3mm
	SW651	92L29112150100	AF			VOLTAGE SELECTOR, 1P2T SSV-12-8700S AC250V VDE
⚠	SW810	92L29103600012	AG			1P2T DLS-02-1

[11] CABINET PARTS



Note: Only the unit and consumale parts are supplied as parts supply for the Tape mechanism.

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[11] CABINET PARTS					
1	92L90007041300	AQ			CASSETTE DOOR ASSEMBLY
2	92L62618070010	AF			CASSETTE DOOR BRACKET
3	92L54108070000	AC			CASSETTE DOOR SPRING
4	92L62629060010	AC			DAMPER GEAR BRACKET
5	92L80439060010	AB			DAMPER GEAR
6	92L90007041000	BB			FRONT CABINET ASSEMBLY (Without Mic Cushion)
7	92L80237040011	AD			VOLUME KNOB
8	92L62678070010	AD			SPEAKER CLIP (L)
9	92L30308303077	AV			SPEAKER (SPK101,SPK102)
10	92L62688070010	AD			SPEAKER CLIP (R)
11	92L34207040000	AK			LCD DISPLAY
12	92L62637040010	AD			LCD BRACKET
13	92L22507041000	BA			TAPE MECHANISM
14	92L54033133000	AC			RECORD SPRING PLATE
15	92L62657040010	AB			VOLUME KNOB BRACKET
16	92L15107041010	AE			HEAT SINK ,
17	92L80257040013	AD			TUNING KNOB
18	92L62647040010	AD			TUNING BRACKET
19	92L62708070010	AC			POINTER
20	92L13812030110	AD			RUBBER FOOT
21	92L29547041100	AX			POWER TRANSFORMER (T501)
22	92L62007040101	AX			BACK CABINET
23	92L54027041010	AE			SPRING BATTERY +/-
24	92L54017041010	AE			SPRING BATTERY "-"
25	92L54003406010	AC			SPRING BATTERY "+"
26	92L54007041010	AG			SPRING BATTERY "+/-"
27	92L90007041200	AM			BATTERY DOOR ASSY
28	92L16407040010	AE			ANT. SOLDERING LUG
29	92L30209040001	AM			ROD ANTENNA
30	92L63008070022	AC			HANDLE
31	92L60107040013	AP			CD DOOR
32	92L60709080010	AC			MAGNET COVER
33	92L29009020011	AD			CD MAGNET
34	92L62678028010	AD			MAGNET BRACKET
35	92L47707600050	AD			FELT
36	92L62608070010	AQ			CD DOOR BRACKET
37	92L80227040010	AD			FUNCTION KNOB
38	92L62617040010	AD			FUNCTION KNOB BRACKET
39	92L54118070000	AD			CD DOOR SPRING
40	92L90007041100	AM			DOOR LATCH SWITCH ASSY
41	92L80247040011	AC			BAND KNOB
42	92L62627040010	AD			BAND KNOB BRACKET
43	92L60739080020	AD			DUST COVER
44	92L1380902020C	AD			RUBBER CUSHION
45	92L1380902010C	AD			RUBBER CUSHION
46	92L80138070019	AC			PAUSE KNOB
47	92L80158070019	AC			STOP KNOB
48	92L80148070019	AC			F.FWD KNOB
49	92L80118070019	AC			REWIND KNOB
50	92L80128070019	AC			PLAY KNOB
51	92L80108070019	AC			RECORD KNOB
52	92L5600904010B	BF			CD MECHANISM
53	92L25800125000	AG			AC INPUT SOCKET (SO651)
54	92L14100150000	AC			COVER VOLTAGE SELECTOR
55	92L29112150100	AF			VOLTAGE SELECTOR (SW651)
56	92L15117041010	AE			HEAT SINK
57	92L15607041010	AE			METAL PLATE
58	92L29300180000	AE			PIEZO (SPK403,SPK404)
59	92L1380100K000	AC			MIC CUSHION
S01	92L13020030412	AA			MACHINE SCREW, ∅2 X 3PH
S02	92L13026050112	AA			MACHINE SCREW, ∅2.6 X 5PH
S03	92L13030080012	AA			MACHINE SCREW, ∅3 X 8PH
S04	92L13120060011	AB			TAPPING SCREW, ∅2 X 6PA
S05	92L13130080027	AB			TAPPING SCREW, ∅3 X 8PWH
S06	92L13130100011	AA			TAPPING SCREW, ∅3 X 10PA
S07	92L13130100031	AB			TAPPING SCREW, ∅3 X 10BA
S08	92L13130140011	AB			TAPPING SCREW, ∅3 X 14PA
S09	92L13130200027	AC			TAPPING SCREW, ∅3 X 20PWH
S10	92L13126080142	AA			TAPPING SCREW, ∅2.6 X 8KH
S11	92L13126120021	AC			TAPPING SCREW, ∅2.6 X 12PWA
S12	92L13130080011	AA			TAPPING SCREW, ∅3 X 8PA
S13	92L13130120011	AA			TAPPING SCREW, ∅3 X 12PA
S14	92L13126100012	AA			TAPPING SCREW, ∅2.6 X 10PH
S15	92L13030080112	AA			MACHINE SCREW, M3 X 8PH (BLACK)
[12] ACCESSORIES / PACKING PARTS					
⚠ 1	92L24801800222	AY			AC POWER SUPPLY CORD (round pin)
⚠ 2	92L2680212512A	AN			AC PLUG ADAPTOR (Flat)
3	92L19207041010	AV			PACKING CASE
4	92L20107041010	AG			OPERATION MANUAL (ENGLISH /SPANISH)
5	92L20307041020	AD			SPECIFICATION LABEL (LAG)
6	92L20317041010	AD			CAUTION LABEL
7	92L20607041010	AK			CARTON BOX
8	92L13508070010	AH			POLYFOAM (L)

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[12] ACCESSORIES / PACKING PARTS					
9	92L13508070020	AH			POLYFOAM (R)
10	92L20707041010	AC			PICK UP PROTECTIVE CARD
11	92L19407041010	AC			POLYBAG (SET)
[13] P.C.B. ASSEMBLY (Not Replacement Item)					
PCB-A1	92L23707041S00				MAIN PCB ASS'Y
PCB-A3	92L23707041S10				CD CONTROL PCB ASS'Y
PCB-A4	92L23707041S30				POWER PCB ASS'Y
PCB-B2	92L23707041S20				R/D PCB ASS'Y

SHARP

COPYRIGHT © 2004 BY SHARP CORPORATION

ALL RIGHTS RESERVED.

No part of this publication may be reproduced, stored in a retrieval system, or transmitted in any from or by any means, electronic, mechanical, photocopying, recording, or otherwise, without prior written permission of the publisher.

SHARP CORPORATION
Printed in Malaysia